

**LIST OF SCIENTIFIC PAPER**  
**Prof.Hab.Eng. DORINA-RODICA CHAMBRE Ph.D.**

**A. PhD/ Habilitation Thesis**

PhD Thesis Title : CONTRIBUTIONS TO THE STUDY OF THERMAL STABILITY AND CATALYTIC ACTIVITY OF SOME CATIONITIES

Institution: University of Bucharest, Faculty of Chemistry

Supervisor: Prof. Doc. Eugen Segal PhD., Member of the Romanian Academy

Date: 25.06.2004

Title: PhD in the Chemistry field according to OMEC no.5237 from 5.11.2004, PhD Diploma Series D no.0001910

Habilitation Thesis Title: "ECO-FRIENDLY" POLYMERIC AND LIPID SYSTEMS WITH MINIMUM IMPACT ON THE ENVIRONMENT

Institution: Interdisciplinary Doctoral School, "Aurel Vlaicu" University of Arad

Date: June 2020

Title: Certificate of habilitation in the field of doctoral studies in Environmental Engineering, OM no. 5792 / 10.10.2020

**B. Books and chapters in published books**

*Books:*

**B1. Dorina-Rodica CHAMBRE**, *Polymer Chemistry and Physics*, "Aurel Vlaicu" University Publishing House, Arad, 2005, 141 pages, ISBN 973-8363-64-

**B2. Dorina-Rodica CHAMBRE**, *Notions of Environmental Protection*, "Aurel Vlaicu" University Publishing House, Arad, 2005, 213 pages, ISBN 973-8363-65-9;

**B3. Cornelia IDI OIU, Cri an POPESCU, Dorina CHAMBRE, Raluca-Maria SZABO**, *Physical Chemistry of Textile Dyeing*, "Aurel Vlaicu" University Publishing House, Arad, 2002, 236 pages, ISBN 973-8363-15-2;

**B4. Cornelia IDI OIU, Dorina CHAMBRE, Raluca-Maria SZABO**, *Experimental General Physical Chemistry*, "Aurel Vlaicu" University Publishing House, Arad, **2002**, 176 pages, ISBN 973-8363-14-4;

**B5. Nicolae.ONI A, Bujor. Ioan PANCAN, Dorina CHAMBRE, Elisabeta IVAN**, *Chemistry*, EUROSTAMPA Publishing House, Timi oara, **2000**, 166 pages, ISBN 973-8027-81-0;

**B6. Cornelia IDI OIU, Dorina CHAMBRE**, *Physical and Colloidal Chemistry - Laboratory Guide*, "Aurel Vlaicu" University Publishing House, Arad, **1997**, 150 pages, ISBN 973-97828-8-4;

*Chapters:*

**B7. Harja FLORIAN, Dorina CHAMBRE**, *Biodiesel: characteristics and quality standards*, in: *Agro-energy Systems and Local Adaptation- Biofuel Development From the Agricultural Sector*, Universitaria Udinese Publishing House, Italia, Ed. F.Rosa, **2008**, pp.145-152, ISBN978-88-8420-518-6;

**B.8.** Ioan CALINOVICI, **Dorina CHAMBRE**, *The soil, natural resources within the Lipova area*, in: Sentieri dell'Innovazione nel Territorio, Dinamiche di Sviluppo ed Aggregazione: il Caso Italia- Romania, Universitaria Udinese Publishing House, Italia, Ed. F.Rosa, **2006**, pp.117-124, ISBN 88-8420-324-4;

**B.9** Virgil CIUTINA, **Dorina CHAMBRE**, *The wine way in the Arad winery – source of social – economical development and recreation*, in: Sentieri dell'Innovazione nel Territorio, Dinamiche di Sviluppo ed Aggregazione: il Caso Italia- Romania, Universitaria Udinese Publishing House, Italia, Ed. F.Rosa, **2006**, pp.125-134, ISBN 88-8420-324-4;

## **C. Papers published in ISI or BDI indexed journals**

### **ISI INDEXED JOURNALS (with impact factor)**

**C1.** Ursachi, C.-S. ,; Pert,a-Cris,an, S.; Tolan, I.; Chambre, D.R.; Chereji, B.-D.; Condrat, D.; Munteanu, F.-D., Development and Characterization of Ethylcellulose Oleogels Based on Pumpkin Seed Oil and Rapeseed Oil, *Gels*, (2024);10(6):384; (I.F.=5.0), <https://doi.org/10.3390/gels10060384>, ISSN: 2310-2861

**C2.** Alexandru Bogdan , Lorena Aliana Cioban , Dana Maria Copolovici , Dorina Chambre , Lucian Copolovici, Pollutants and weathering compounds on medieval bricks of historic buildings from Brasov (Transylvania, Romania), *Urban Climate* (2024); 55:101930 (IF 6.4 ), <https://doi:10.1016/j.uclim.2024.101930>

**C3.** Tepeneu Andreea, Lupitu Andreea, Moisa Cristian, Chambre Dorina, Copolovici Dana Maria, Copolovici Lucian, The Variability of Indoor Air Pollutants in The Office and Their Impact on the Workers' Health, *Polish Journal of Environmental Studies*, Vol. 33, No. X (2024), 1-15, DOI: 10.15244/pjoes/186445, (I.F.=1,4), eISSN:2083-5906, ISSN:1230-1485

**C4.** Tepeneu Andreea, Lupitu Andreea, Surdea-Blaga Teodora, Moisa Cristian, Chambre Dorina, Copolovici Dana Maria, Copolovici Lucian, Variability of Air Pollutants in the Indoor Air of a General Store, *APPLIED SCIENCES-BASEL*, (2023);13(23):12572; (I.F.=2.7), <https://doi.org/10.3390/app132312572>, eISSN:2076-3417, ISSN: 2076-3417

**C5.** Andreea Lupitu 1, Cristian Moisa 1, Flavia Bortes 1, Denisa Peteleu, Mihaela Dochia , Dorina Chambre , Virgiliu Ciutin , Dana Maria Copolovici , Lucian Copolovici , The Impact of Increased CO2 and Drought Stress on the Secondary Metabolites of Cauliflower (*Brassica oleracea* var. botrytis) and Cabbage (*Brassica oleracea* var. capitata), *Plants* (Basel), (2023);12(17):3098; (I.F.=4.5), <https://doi: 10.3390/plants12173098>, ISSN: 2223-7747

**C6.** Lupitu,Andreea, Cristian Moisa, Simona Gavrilă , Mihaela Dochia, **Dorina CHAMBRE**, Virgiliu Ciutin , Dana M. Copolovici, and Lucian Copolovici, The Influence of Elevated CO2 on Volatile Emissions, Photosynthetic Characteristics, and Pigment Content in Brassicaceae Plants Species and Varieties, *Plants*, (2022);11(7): 973. (I.F.=4.658) <https://doi.org/10.3390/plants1107097>, eISSN:2223-7747

**C7.** Maria-Daniela Mot, Simona Gavrilă , Andreea I. Lupitu, Cristian Moisa, **Dorina CHAMBRE**, Delia M. Tit, Mihaela A. Bogdan, Adina-Maria Bodescu, Lucian Copolovici, Dana M. Copolovici, and Simona G. Bungau, *Salvia officinalis* L. Essential Oil: Characterization, Antioxidant Properties,

and the Effects of Aromatherapy in Adult Patients, *Antioxidants*, (2022);11(5):808., (I.F.=7.657), <https://doi.org/10.3390/antiox11050808>, eISSN:2076-3921

**C8.** Alexandru Bogdan, Dorina **CHAMBRE**, Dana Maria Copolovici, Tudor Bungau, Constantin C. Bungau, Lucian Copolovici, Heritage Building Preservation in the Process of Sustainable Urban Development: The Case of Brasov Medieval City, Romania, *Sustainability*, (2022);14(12):6959, (I.F.=3.889), <https://doi.org/10.3390/su14126959>, eISSN:2071-1050

**C9.** Mihaela Alexandra Bogdan, Simona Bungau, Delia Mirela Tit, Dana Carmen Zaha, Aurelia Cristina Nechifor, Tapan Behl, **Dorina CHAMBRE**, Andreea Ioana Lupitu, Lucian Copolovici, Dana Maria Copolovici, Chemical Profile, Antioxidant Capacity, and Antimicrobial Activity of Essential Oils Extracted from Three Different Varieties (Moldoveanca 4, Vis Magic 10, and Alba 7) of *Lavandula angustifolia*, *Molecules*, (2021);26(14):4381-3301., doi: 10.3390/molecules26144381, (F.I. 4.412), <https://pubmed.ncbi.nlm.nih.gov/34299656/>, eISSN: 1420-304

**C10.** Adriana Cecilia Csakvari, Cristian Moisa, Dana G Radu, Leonard M Olariu, Andreea I Lupitu, Anca Ofelia Panda, Georgeta Pop, **Dorina CHAMBRE**, Vlad Socoliuc, Lucian Copolovici, Dana Maria Copolovici, Green Synthesis, Characterization, and Antibacterial Properties of Silver Nanoparticles Obtained by Using Diverse Varieties of Cannabis sativa Leaf Extracts, *Molecules*, (2021);26(13):4041-4058, doi: 10.3390/molecules26134041, (F.I. 4.412), <https://pubmed.ncbi.nlm.nih.gov/34279380/>, eISSN:1420-304

**C11.** **Dorina Rodica CHAMBRE**, Cristian MOISA, Andreea LUPITU, Lucian COPOLOVICI, Georgeta POP, Dana-Maria COPOLOVICI, Chemical composition, antioxidant capacity, and thermal behavior of *Satureja hortensis* essential oil, *Scientific Reports*, (2020); *10*:21322-21333; (F.I. 4,120), ISSN 2045-2322 (online), <https://doi.org/10.1038/s41598-020-78263-9>

**C12.** **Dorina Rodica CHAMBRE**, Mihaela TOCIU, Michaela Dina ST NESCU, Cri an POPESCU, Influence of composition on the thermal behavior of oils extracted from the seeds of some Romanian grapes. *Journal of the Science of Food and Agriculture*, (2019); *99 (14)*:6324-6332; (F.I. 2,422), <https://doi.org/10.1002/jsfa.9909>;

**C13.** **Dorina CHAMBRE**, Mihaela DOCHIA, Simona GAVRILA, TG/DTG analysis of an eco-friendly scoured fabric. *Rev. Roum. Chim.*, (2019); *64(5)*:453-460; (F.I. 0,395), DOI 10.33224/rrech.2019.64.5.09, <http://revroum.lew.ro/wp-content/uploads/2019/05/Art%2009.pdf>;

**C14.** Cristian MOIS, Andreea LUPITU, Georgeta POP, **Dorina Rodica CHAMBRE**, Lucian COPOLOVICI, Gabriela CIOAC, Simona BUNG U, Dana Maria COPOLOVICI, Variation of the Chemical Composition of *Thymus Vulgaris* Essential Oils by Phenological Stages. *REV. CHIM. (Bucharest)*, (2019); *70(2)*:633-637; (F.I. 1,605), <https://doi.org/10.37358/RC.19.2.6973>;

**C15.** **Dorina Rodica CHAMBRE**, Simona GAVRILA, Michaela Dina ST NESCU, Cri an POPESCU, Thermal analysis for depiction of Laccase-PVA biocomposite. *Rev. Roum. Chim.*, (2018); *63(9)*:855-860; (F.I. 0,395), <http://revroum.lew.ro/wp-content/uploads/2018/09/Art%2009.pdf>;

**C16.** Diana Nicoleta RABA, **Dorina Rodica CHAMBRE**, Dana-Maria COPOLOVICI, Camelia MOLDOVAN, Lucian Octav COPOLOVICI, The influence of high-temperature heating on

composition and thermo-oxidative stability of the oil extracted from Arabica coffee beans. *PLoS ONE*, (2018); *13*(7): e0200314; (F.I. 2,776), [doi.org/10.1371/journal.pone.0200314](https://doi.org/10.1371/journal.pone.0200314);

**C17.** Mihaela DOCHIA, **Dorina CHAMBRE**, Simona GAVRILA , Cristian MOIS , Characterization of the complexing agents' influence on bioscouring cotton fabrics by FT-IR ATR and TG/DTG/DTA analysis. *Journal of Thermal Analysis and Calorimetry*, (2018); *132*(3):1489-1498; (F.I. 2,471), <https://doi.org/10.1007/s10973-018-7089-y>;

**C18.** Mihaela DOCHIA, Monica PUSTIANU, Cristian MOIS , **Dorina CHAMBRE**, Simona GAVRILA , Sodium citrate as an eco-friendly complexing agent for the bio-scouring treatment of the cellulosic /ligno-cellulosic fabrics. *Chemical Papers*, (2018); *72*(8):1881-1888; (F.I. 1,246), <https://doi.org/10.1007/s11696-018-0455-1>;

**C19.** Gheorghe Radu Emilian M RIE , Dan CHIRA, Ovidiu NOVAC, Cecilia SÎRGHIE, **Dorina Rodica CHAMBRE**, Daniel TOMESCU, The Influence of the Processing Temperature by Injection and of Subsequent Pressure on Some Mechanical Properties of HDPE, PMMA, PC+ABS, Through Methods of Determining the Flexural Properties. *MATERIALE PLASTICE*, (2016); *53*(3):458-464; (F.I. 1,393), <https://www.revmaterialeplastice.ro/Articles.asp?ID=4696>;

**C20.** Cecilia SÎRGHIE, Mihaela DOCHIA, Ioan VIFOR ISTOC, **Dorina CHAMBRE**, Lucian COPOLOVICI, A Comparison of a New Method Mediated by Molybdenum Complex with an Enzymatic Method for Bleaching Flax Fibers. *Journal of Natural Fibers*, (2015); *12*(4):378-387; (F.I. 1,252), <https://doi.org/10.1080/15440478.2014.929557>;

**C21.** Iolanda TOLAN, **Dorina-Rodica CHAMBRE**, Study of L-glutamic Acid Influence on the Thermal Behaviour of Native Wheat Starch. *REV. CHIM.(Bucharest)*, (2015); *66*(4):444-450; (F.I. 1,605), <https://revistadechimie.ro/RCRevChimie.asp>;

**C22.** Marcel Ionel POPA, Silvia PERNEVAN, Cecilia SÎRGHIE, Iuliana SPIRIDON, **Dorina CHAMBRE**, Dana Maria COPOLOVICI, Niculina POPA, Mechanical Properties and Weathering Behavior of Polypropylene-Hemp Shives Composites. *Journal of Chemistry*, Volume 2013, Article ID 343068, 8 pages; (F.I. 1,727), <http://dx.doi.org/10.1155/2013/343068>;

**C23.** **Dorina Rodica CHAMBRE**, Adina Maria BODESCU, Cecilia SÎRGHIE, Thermal decomposition of the oxo-diperoxo-molibdenum (VI)-potassium oxalate. *Journal of Thermal Analysis and Calorimetry*, (2013); *112*(2):851-857; (F.I. 2,471), <http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/s10973-012-2649-z>

**C24.** Maria Raluca SZABO, **Dorina CHAMBRE**, Cornelia IDI OIU, TG/DTG/DTA for the oxidation behavior characterization of vegetable and animal fats. *Journal of Thermal Analysis and Calorimetry*, (2012); *110*(1):281-285; (F.I. 2,471), <https://doi.org/10.1007/s10973-012-2253-2>;

**C25.** Maria Raluca SZABO, Dana RADU, Simona GAVRILA , **Dorina CHAMBRE**, Cornelia IDIŢOIU, Antioxidant and antimicrobial properties of selected spice extracts. *International Journal of Food Properties*, (2010); *13*(3):535-545; (F.I. 1,398), <https://doi.org/10.1080/10942910802713149>

**C26.** Dumitru CONDRAT, Florin CRI AN, Maria Raluca SZABO, **Dorina Rodica CHAMBRE**, Alfa Xenia LUPEA, Flavonoids in Angiospermatophyta and Spermatophyta species and their

antioxidant activity. *REV. CHIM.(Bucharest)*, (2009); *60(11)*:1129-1134; (F.I. 1,605), <https://revistadechimie.ro/RCRevChimie.asp>;

**C27. Dorina CHAMBRE**, Maria Raluca SZABO, Cri an POPESCU, Cornelia IDI OIU, Heterogeneous soft acid catalysis of the sucrose hydrolysis. *Journal of Thermal Analysis and Calorimetry*, (2008); *94(2)*:417-420; (F.I. 2,471), <https://doi.org/10.1007/s10973-008-9147-3>;

**C28. Gheorhe HUTIU, Dorina CHAMBRE**, Studies concerning the Elimination of Cd and As from Retrievable Sn-Sb based Antifriction Alloys; *REV. CHIM.(Bucharest)*, (2008); *59(5)*:550-553; (F.I. 1,605), <https://revistadechimie.ro/RCRevChimie.asp>

**C29. Maria Raluca SZABO, Cornelia IDI OIU, Dorina CHAMBRE, Alfa Xenia LUPEA**, Antiradical activity evaluation of some plants used in the Romanian cuisine; *International Journal of Food Properties*, (2008); *11(2)*:330-338; (F.I. 1.398), <https://doi.org/10.1080/10942910701376402>;

**C30. Maria Raluca SZABO, Cornelia IDIŢOIU, Dorina CHAMBRE, Alfa Xenia LUPEA**, Improved DPPH Determination for Antioxidant Activity Spectrophotometric Assay; *Chemical Papaper*, (2007); *61(3)*:214-216; (F.I. 1,246), <https://doi.org/10.2478/s11696-007-0022-7>;

**C31. Dorina CHAMBRE**, Cornelia IDI OIU, Maria Raluca SZABO, The reaction conditions influence on sucrose acid hydrolysis studied by means of DSC method; *Journal of Thermal Analysis and Calorimetry*, (2007); *88(3)*:681-686; (F.I. 2,471), <https://doi.org/10.1007/s10973-006-8043-y>;

**C32. Dorina CHAMBRE**, Cornelia IDI OIU, Eugen SEGAL, Non-isothermal dehydration kinetics of acrylic ion-exchange resins; *Journal of Thermal Analysis and Calorimetry*, (2007); *88(3)*:673-679; (F.I. 2,471), <https://doi.org/10.1007/s10973-006-8042-z>

**C33. Dorina CHAMBRE**, Maria Raluca SZABO, Cornelia IDI OIU, DSC study of the sucrose hydrolysis kinetic on synthetic cationites 1. Carboxylic catalysts; *REV. CHIM.(Bucharest)*, (2006); *57(6)*:594-597; (F.I. 1,605), <https://revistadechimie.ro/Articles.asp?ID=1062>

**C34. Dorina CHAMBRE**, Cornelia IDI OIU, Eugen SEGAL, Attilio CESÀRO, The study of non-isothermal degrdation of acrylic ion-exchange resins; *Journal of Thermal Analysis and Calorimerty*, (2005); *82(3)*:803-811; (F.I. 2,471), <https://doi.org/10.1007/s10973-005-0967-0>;

**C35. Dorina CHAMBRE**, Cornelia IDIŢOIU, Petru BUDRUGEAC, Eugen SEGAL, Nonisothermal kinetic parameters of synthetic carboxylic cationites dehydration by means of isoconversional methods; *REV. CHIM.(Bucharest)*, (2005); *56(5)*:502-507; (F.I. 1,605), <https://revistadechimie.ro/Articles.asp?ID=645>;

**C36. Cornelia IDIŢOIU, Cri an.POPESCU, Dorina CHAMBRE**, Non-Isothermal Dehydration Kinetics of Some Cationites; *Journal of Thermal Analysis and Calorimerty*, (1999); *55(3)*:885-893; (F.I. 2,471), <https://doi.org/10.1023/A:1010142102614>;

**C37. Cornelia IDIŢOIU, Eugen SEGAL, Dorina CHAMBREE**, Kinetics of non-isothermal behavior of synthetic cationites with low acidity; *Journal of Thermal. Analysis and Calorimetry*, (1999); *56(1)*:407-417; (F.I. 2,471), <https://doi.org/10.1023/A:1010171222225>;

## **BDI INDEXED JOURNALS**

**C38. Lorena Aliana Cioban, Mihaela DOCHIA, Claudia Mure an, Dorina Rodica CHAMBRE**, “WEATHERING AND DETERIORATION OF CARBONATE STONES FROM HISTORICAL MONUMENTS: A Review”, *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 19 (XX), (2022);15-33, ISSN 1582-1021, e-ISSN 2668-4764, <https://uav.ro/jour/index.php/stb-cfse/article/view/1860/1787>

**C39. Dorina Rodica CHAMBRE**, Mihaela DOCHIA, “FT-IR characterization of cellulose crystallinity from raw bast fiber”, *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 18 (XIX), (2021);10-17, ISSN 1582-1021, e-ISSN 2668-4764, <https://uav.ro/jour/index.php/stb-cfse/article/view/1731/1721>

**C40. Dorina Rodica CHAMBRE**, Mihaela DOCHIA, “Pectin quantification from cellulosic/lignocellulosic raw materials by FT-IR ATR analysis”, *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 17 (XVIII), (2020); 20-25, ISSN 1582-1021 <https://www.uav.ro/jour/index.php/stb-cfse/article/view/1571/1630>

**C41. Dorina Rodica CHAMBRE**, Mihaela DOCHIA, “Characterization of alkaline and enzymatically treated hemp fibres by FT-IR ATR spectroscopy”, *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2018); Vol.15 (XVI):18-22, ISSN 1582-1021, <https://www.uav.ro/jour/index.php/stb-cfse/article/view/1348>

**C42. Mihaela DOCHIA**, Simona GAVRILA , Monica PUSTIANU, Cristian MOIS , **Dorina CHAMBRE**, “Waste water analysis from a new green pretreatment of cotton fabrics”, *Annals of the University of Oradea, fascicle of Textiles, Leatherwork*, (2018); Vol.XIX(2):37-43, ISSN1843–813X, <http://textile.webhost.uoradea.ro/Annals/Vol%20XIX-No%202-2018/Textile/Art.%20no.%20319-pag.%2037-42.pdf>;

**C43. Claudia MURE AN**, Anca Mihaela DICU, Virgil CIUTINA, **Dorina CHAMBRE**, Claudiu URSACHI, ”Quality characteristics and standards for sunflower oil from Arad agricultural area”, *Bulletin UASVM Agriculture*, (2011); 68(2):357-361, Print ISSN 1843-5246; Electronic ISSN 1843-5386, DOI: <http://dx.doi.org/10.15835/buasvmcn-agr:6582>;

**C44. Dumitru CONDRAT**, **Dorina CHAMBREE**, Florian HARJA, Alfa Xenia LUPEA, Analysis of the thermal stability for the extra-virgin olive oil with or without added extract of *Solidago virga aurea*. *Analele Universitatii din Craiova-Biologie, Horticultura, Tehnologia Prelucrarii Produselor Agricole, Ingineria Mediului*, (2009); Vol.14:571-578, <https://journals.indexcopernicus.com/search/article?articleId=293186>;

**C45. Dorina.CHAMBRE**, Raluca Maria SZABO, Cornelia.IDIȚOIU, Eugen SEGAL, Non-isothermal study of some partially neutralized carboxylic cationites. *Annals of West University of Timisoara*, (2006); Nr.15(2):117-126, ISSN 1224-9513;

**C46. Dorina CHAMBRE**, Cornelia IDI OIU, Eugen SEGAL, Maria Raluca SZABO, Using DSC method to study the sucrose acid hydrolysis. *Annals of West University of Timisoara, Series Chemistry* , (2003); Vol.12(3), Part IV:1591-1598, ISSN 1224-9513;

**C47. Claudia MURE AN**, Anca Mihaela DICU, Raluca SZABO, **Dorina CHAMBRE**, ”Analysis of high oleic oil produced from sunflower grown in Arad area”, 45-Croatian International Symposium on Agriculture, Opatija, Croatia, February 15-19, (2010); pg.859-863, ISBN 978-953-6331-79-6, [http://sa.agr.hr/pdf/2010/sa2010\\_p0545.pdf](http://sa.agr.hr/pdf/2010/sa2010_p0545.pdf)

## ISI PROCEEDINGS

**C48.** Cristian Moisa, Andreea Ioana Lupitu, Adriana Csakvari, Dana Radu, Dorina Chambre, Lucian Copolovici, Dana Maria Copolovici, Silver Nanoparticles Mediated by Natural Extracts Recovered from Wastes and By-Products, *Chem.Proc.*, (2022);7,7; <https://doi.org/10.3390/chemproc2022007007>, [mdpi.com/journal/chemproc](http://mdpi.com/journal/chemproc), ISSN 2673-4583

## **D. Papers published in recognized journals (with references), in conference volumes or presented at specialized congresses and conferences**

### PAPERS PUBLISHED IN RECOGNIZED JOURNALS (WITH REFERENCES)

**D1.** Lucian Copolovici, Adriana Csakvari, Leonard Olariu, Georgeta Pop, Dorina Chambre, Dana Copolovici, “*THE CHARACTERISATION OF CANNABIS SATIVA LEAVES EXTRACTS AND THEIR SILVER NANOPARTICLES PRODUCTS FOR POTENTIAL BIOLOGICAL APPLICATIONS*”, *Journal of Experimental & Molecular Biology*, (2019); Vol. **20(3)**: p.31, ISSN 2601-6974, <http://www.jemb.bio.uaic.ro/index.php/jemb/issue/view/7/6>

**D2. Dorina Rodica CHAMBRE**, Cecilia SÎRGHIE, The influence of the nature and fatty acids content on the stability of the oils from technical plants seeds. *Scientific Bulletin of ESCORENA*, (2012); vol.6:11-20, ISSN 2066-5687,ISSN 2069-8070, [https://ripps.uav.ro/files/sbesc/SBEScorena\\_vol\\_6\\_2012.pdf](https://ripps.uav.ro/files/sbesc/SBEScorena_vol_6_2012.pdf),

**D3.** Daniela DIACONESCU, **Dorina CHAMBRE**, Ways to improve bread quality by enzyme use. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2008); Vol. **13(XIV)**:125-128, ISSN 1582-1021;

**D4. Dorina CHAMBRE**, Maria Raluca SZABO, Simona GAVRILAS ,CORNELIA IDI OIU, Enzymatic analysis of glucose, fructose and saccharose mixture in food stuff, *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2007); Vol. **12(XIII)**:40-44, ISSN 1582-1021;

**D5.** Cornelia IDITOIU, **Dorina CHAMBRE**, Maria Raluca SZABO, Rodica SEGAL, Experimental study of enzymatic d-glucose to D-fructose isomerization. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2007); Vol. **12(XIII)**:84-91, ISSN 1582-1021;

**D6.** Cornelia IDITOIU, **Dorina CHAMBRE**, Crisan POPESCU, Michaela Dina STANESCU, Laboratory procedure for obtaining high fructose syrups from comercial sucrose. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2007); Vol. **12(XIII)**:131-136, ISSN 1582-1021;

**D7.** Maria-Raluca SZABO, Mihaela MESTER, **Dorina CHAMBRE**, Cornelia IDI OIU, Ionel JIANU, DPPH analysis for antioxidant effect of mint, bilberry and black tea, aqueous extracts, *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2006); Vol. **11(XII)**:117-121, ISSN 1582-1021;

**D8.** Maria-Raluca SZABO, **Dorina CHAMBRE**, Cornelia Idi oi, New method for the calculus of the antioxidant activity in the DPPH spectrophotometric assay. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2006); Vol. **11(XII)**:122-125, ISSN 1582-1021;

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## E. Research projects

<b>Project manager</b>	E1. Romanian-Italian bilateral project "BIOSUN-ROMITALIA", project code No. 4/2005; Partners: "Aurel Vlaicu" University from Arad, Romania; Agricultural Consultancy Agency, County Agricultural Consultancy Office, Arad, Romania; SC Di Beta General Contract, Arad, Romania; University of Studies in Udine, Italy; project manager for Romania; Implementation period: 2005-2007; Total value: 50,000 euros; UAV value: 35,000 lei financed after winning 1st place at the START CUP INTERNATIONAL IDEA Udine competition, July 6, 2005;
	E2. "BASTEURES-Liberian plants-strategic energy resources for the European economy", POS-CCE no.210/2010, contract ID - 679, financed by the Sectoral Operational Program Increasing Economic Competitiveness, Priority Axis 2 - Competitiveness through CDI,



	<p>Operation 2.1.2: "CD projects of high scientific level in which specialists from abroad will participate", beneficiary "Aurel Vlaicu" University from Arad, I.C.D.I.S.T.N., responsible for work package III (2010-2012) and scientific responsible for the project in 2013, Implementation period: 2010-2013; Total value: 6,842,915 lei.</p>
<b>Member of the research team</b>	<p><b>E3.</b> "Cell-penetrating peptides-containing systems as a potential platform for use in breast and prostate cancer treatment, CPPS Cancer", PN-III-P4-PCE-2021-0639; Project funded by UEFISCDI, <a href="https://cpps-cancer.uav.ro/">https://cpps-cancer.uav.ro/</a> Implementation period: 2023-2026; Total value: 1,199,998 LEI;</p>
	<p><b>E4.</b> "The impact of abiotic and biotic stress on plants due to climate change - STRESSEDPLANTS", UEFISCDI project, PN-III-P4-ID-PCE2020-0410; <a href="https://stressedplants.uav.ro/wordpress/">https://stressedplants.uav.ro/wordpress/</a> Implementation period: 2020-2023; Total value: 1,198,026.00 RON;</p>
	<p><b>E5.</b> "Demonstration installation for an innovative hemp melting technology project" PN-III-P-2-2.1-PTE-2016, contract 28 PTE/2016, Link: <a href="http://itop.uav.ro">http://itop.uav.ro</a>, Implementation period: 2016-2018; Total value: 518,001 RON;</p>
	<p><b>E6.</b> "New Biomaterials by Enzyme Immobilization in/on Cryogel-Based Macroporous Carriers", Bilateral Grant Romania - Russian Federation, (#07-03-91682 RA_a), Implementation period: 2008-2009;</p>
	<p><b>E7.</b> "Computerized filtration and separation systems activated with ultrasound and controlled with biosensors for textile processes", Excellence Research Project; Implementation period: 2006-2008; Total value: 1,390,000 lei of which 165,000 RON;</p>
	<p><b>E8.</b> "Improved process for obtaining fructose - a natural sweetener for diabetic and obese people", Grant CNCSIS code 244; Implementation period: 2005-2007; value 51,800 RON</p>
	<p><b>E9.</b> "Technologies of bio-use of textile waste", BIOTECH program, subprogram III, project category P.E.D., Contract, no. 4521/14.12.2004, financier: the state budget - M.Ed.C., PNCDI through the National Research and Development Institute for Textiles and Leather, Period of implementation: 2004-2006; value 8500 RON</p>
	<p><b>E10.</b> ORIZONT 2000 "Literature study on the enzymatic treatment of wool" COD 11.1.7."Competitive generic technologies - ecotechnologies - research on the development of non-polluting technologies in the textile field through the enzymatic treatment of wool", Contract no. 281/12.05.1997 concluded with The Ministry of Research and Technology through the Research Center for Quality and Environmental Protection LACECA Bucharest; Implementation period: 1997-1998; value for UAV 5,000,000 Lei</p>
	<p><b>E11.</b> "Modelling of the kinetics of the formation of polluting agents from the waste water of the galvanizing sections", Contract no. 33/08.07.1994, Beneficiary: Research Center for Quality and Environmental Protection LACECA Bucharest; Implementation period: 1994-1995; value for UAV 1,000,000 Lei</p>
	<p><b>E12.</b> "The study of the kinetics and thermodynamics of textile dyeing and</p>

	<p>the establishment of the correlation between the values of the thermodynamic and kinetic constants obtained for each dyeing system and the color resistance of the dyeing", Contract no. 221/5.03.1992 concluded with the Ministry of Education and Science through the Research Center for Quality and Environmental Protection LACECA Bucharest; Period of deployment: 1992-1993; value for UAV 1,000,000 Lei</p> <p><b>E13.</b> "Reduction of specific consumption in the manufacture of spirit from corn by the use of enzymes". Contract no. 1052/11.05.1994; Beneficiary: S.C. INDAGRARA S.A., ARAD; Implementation period: 1994-1995; Total value: 200,000 lei;</p>
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30.09.2024

Prof. hab.dr.ing. Dorina Chambre

