

## LISTA DE LUCRURI

Prof.hab.dr.ing. Dorina Rodica Chambre

### A. Teza de doctorat/ abilitare

Titlul tezei doctorat: **CONTRIBUȚII LA STUDIUL STABILITĂȚII TERMICE ÎN ACTIVITĂȚI CATALITICE A UNOR CATIONI ÎN**

Instituția de doctorat: Universitatea București, Facultatea de Chimie

Coordonator: Prof.Dr.Doc. Eugen Segal, Membru al Academiei Române

Data susinerii doctoratului: 25.06.2004

Titlul obținut: **doctor în domeniul Chimie** conform OMEC nr.5237 din 5.11.2004, Diplomă de doctor Seria D nr.0001910

Titlul tezei de abilitare: **SISTEME POLIMERICE ȘI LIPIDICE CU IMPACT REDUS ASUPRA MEDIULUI**

Instituția: Școala Doctorală Interdisciplinară, Universitatea „Aurel Vlaicu” din Arad

Data susinerii abilitării: iunie 2020

Titlul obținut: **Atestat de abilitare** în domeniul de studii universitare de doctorat **Ingineria Mediului**, OM nr. 5792/10.10.2020

### B. C r i i capitole în c r ți publicate

*Carti:*

**B1. Dorina-Rodica CHAMBRE**, *Chimia și Fizica Polimerilor*, Ed. Univ. „Aurel Vlaicu”, Arad, **2005**, 141 pagini, ISBN 973-8363-64-0;

**B2. Dorina-Rodica CHAMBRE**, *Noțiuni de Protecția Mediului*, Ed. Univ. „Aurel Vlaicu”, Arad, **2005**, 213 pagini, ISBN 973-8363-65-9;

**B3. Cornelia IDI OIU**, Crișan POPESCU, **Dorina CHAMBRE**, Raluca-Maria SZABO, *Chimia Fizică a Vopsirilor*, Ed. Univ. „Aurel Vlaicu” Arad, **2002**, 236 pagini, ISBN 973-8363-15-2;

**B4. Cornelia IDI OIU**, **Dorina CHAMBRE**, Raluca-Maria SZABO, *Chimie Fizică Generală Experimentală*, Ed. Univ. „Aurel Vlaicu” Arad, **2002**, 176 pagini, ISBN 973-8363-14-4;

**B5. Nicolae ONI A**, Bujor. Ioan PANCAN, **Dorina CHAMBRE**, Elisabeta IVAN, *Chimie*, Ed. EUROSTAMPA, Timișoara, **2000**, 166 pagini, ISBN 973- 8027-81-0;

**B6. Cornelia IDI OIU**, **Dorina CHAMBRE**, *Chimie Fizică și Coloidală - Îndrumător de laborator*, Ed. Univ. "Aurel Vlaicu" Arad, **1997**, 150 pagini, ISBN 973-97828-8-4;

*Capitole în carti:*

**B7. Harja FLORIAN**, **Dorina CHAMBRE**, *Biodiesel: characteristics and quality standards*, in: Agro-energy Systems and Local Adaptation- Biofuel Development From the Agricultural Sector, Ed. Universitaria Udinese, Italia, editor 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, Ed. Universitaria Udinese, Italia, editor 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, Ed. Universitaria Udinese, Italia, editor F.Rosa, 2006, pp.125-134, ISBN 88-8420-324-4;

### C. Lucruri publicate în reviste indexate ISI sau BDI

#### **REVISTE INDEXATE ISI (cu factor de impact)**

**C1.** Lupitu, Andreea, Cristian Moisa, Simona Gavrilă, Mihaela Dochia, **Dorina CHAMBRE**, Virgiliu Ciutin, Dana M. Copolovici, and Lucian Copolovici, The Influence of Elevated CO<sub>2</sub> 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

**C2.** 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

**C3.** 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

**C4.** 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

**C5.** 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

**C6.** **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>

**C7.** **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>;

**C8.** **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/rch.2019.64.5.09,

<http://revroum.lew.ro/wp-content/uploads/2019/05/Art%2009.pdf>;

**C9.** 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>;

**C10.** **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>;

**C11.** 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);

**C12.** 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>;

**C13.** 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>;

**C14.** 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>;

**C15.** 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>;

**C16.** 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>;

**C17.** 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>;

**C18. 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>

**C19. 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>;

**C20. 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>

**C21. 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>;

**C22. 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>;

**C23. 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>

**C24. 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>;

**C25. 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>;

**C26. 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>;

**C27. 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>

**C28. 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>

**C29. 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>;

**C30. Dorina CHAMBRE**, Cornelia IDIȚOIU, 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>;

**C31.** Cornelia IDIȚOIU, Cri an.POPESCU , **Dorina CHAMBRE**, Non-Isothermal Dehydration Kinetics of Some Cationites; *Journal of Thermal Analysis and Calorimetry*, (1999); 55(3):885-893; (F.I. 2,471), <https://doi.org/10.1023/A:1010142102614>;

**C32.** Cornelia IDIȚOIU, 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>;

### **REVISTE INDEXATE BDI**

**C33. Dorina Rodica CHAMBRE**, Mihaela DOCHIA, FT-IR characterization of cellulose crystallinity from raw bast fibers, *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 18 (XIX), (2021);10-17, ISSN 1582-1021, e-ISSN 2668-4764, <file:///C:/Users/user/Downloads/106-163-PB.pdf>

**C34.** 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>

**C35.** 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>

**C36.** 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.uroadea.ro/Annals/Vol%20XIX-No%202-2018/Textile/Art.%20no.%20319-pag.%2037-42.pdf>;

**C37.** 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>;

**C38.** 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>;

**C39.** 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;

**C40.** **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;

**C41.** 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**

**C42.** 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. Lucr ri publicate în reviste recunoscute (cu referenți), în volume de conferințe sau prezentate la congrese și conferințe de specialitate**

**REVISTE RECUNOSCUTE CU REFERENȚI**

**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;

**D9. Dorina CHAMBRE**, Cornelia IDITOIU, Maria Raluca SZABO, Thermal behaviour under non-isothermal conditions of some weak acid cationites in bi-ionic form ( $H^+ \dots Na^+$ ), *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2005); Vol. 10(XI):37-44, ISSN 1582-1021;

**D10.** Michaela Dina STANESCU, Cornelia IDITOIU, Maria Raluca SZABO **Dorina CHAMBRE**, Enzymatic biodegradation of the coloured substances from wastes. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2005); Vol. 10(XI):10-13, ISSN 1582-1021;

**D11.** Cornelia IDITOIU, **Dorina CHAMBRE** Maria Raluca SZABO Michaela Dina STANESCU, Fructose, a valuable natural sweetener for the consumer of the XXI century. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2005); Vol. 10(XI):14-17, ISSN 1582-1021;

**D12.** Maria Raluca SZABO, Cornelia IDITOIU, **Dorina CHAMBRE**, Ambient medium influence on the food degradation kinetics. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2004); Vol. 9(X): 71-76, ISSN 1582-1021;

**D13. Dorina CHAMBRE**, Cornelia IDITOIU, Maria Raluca SZABO, Kinetic estimation methods for nonisothermal dehydration of carboxylic cationites. *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2004); Vol. 9(X): 19-26, ISSN 1582-1021;

**D14. Dorina CHAMBRE**, Cornelia IDITOIU, Maria Raluca SZABO, The catalyst properties influence on sucrose hydrolysis kinetic studied by means DSC method, *Scien. and Techn. Bull. of Univ. “Aurel Vlaicu” Arad, Series. Chem, Food Science and Engineering*, (2004); Vol. 9(X): 6-13, ISSN 1582-1021;

**D15.** Maria Raluca SZABO, Cornelia IDITOIU, **Dorina CHAMBRE**, Efectul temperaturii asupra model rii cinetice a degrad rii alimentelor, *Analele Univ. “Aurel Vlaicu” din Arad, Seria Chimie, Fascicola Inginerie Alimentar* , (2004):36-42, ISSN 1582-3415;

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**D84. Dorina CHAMBRE**, Cornelia IDITOIU, Eugen SEGAL, Non-isothermal behavior kinetics of synthetic cationites with low acidity, *7-th European Symposium on Thermal Analysis and Calorimetry ESTAC –7*, 30 august-4septembrie **1998**, Balatonfured, Ungaria;

**D90. Dorina CHAMBRE**, Cornelia IDITOIU, Eugen SEGAL, Comportarea termic în regim dinamic a unor cationi i sintetici slab acizi, *Sesiunea de Comunic ri tiin ifice ,Zilele Academice Timi ene*, Ed.V-a, 22-24 Mai **1997**, Timi oara, Romania.

**D91.** Cornelia IDI OIU, **Dorina CHAMBRE**, Desulfonarea neizoterm a unor cationi i. I. Dependen a parametrilor cinetici de cei experimentali, *Lucr rile celui de al 5-lea Simpozion Anual de Comunic ri Stiin ifice a Comisiei de Analiz Termic i Calorimetrie al Academiei Române*, 22 Februarie **1996**, Bucuresti, Romania;

**D92.** Cornelia IDI OIU, **Dorina CHAMBRE**, Crisan POPESCU, Analiza termic a unor cationi i, *Lucr rile celui de al 5-lea Simpozion Anual de Comunic ri Stiin ifice a Comisiei de Analiz Termic i Calorimetrie al Academiei Române* 22 Februarie, **1996**, Bucuresti, Romania;

**D93. Dorina CHAMBRE**, Cornelia IDI OIU, Crisan POPESCU, Cinetica neizoterm a desulfon rii unor cationi i sintetici, *A VII -a Conferin a de Chimie -Fizic* , Septembrie **1994**, Bucure ti, Romania;

**D94.** Cornelia IDI OIU, Crisan POPESCU, **Dorina CHAMBRE**, Cinetica neizoterm a deshidrat rii unor cationi i, *Lucr rile celui de al 3-lea Simpozion Anual de Comunic ri Stiin ifice a Comisiei de Analiz Termic i Calorimetrie al Academiei Române*, 20 Februarie **1994**, Bucure ti, Romania;

## **E. Contracte de cercetare în întreaga activitate**

<b>Responsabil proiect</b>	<b>EI. Proiect bilateral româno-italian “BIOSUN–ROMITALIA”</b> , cod proiect Nr.4/2005; Parteneri: Universitatea ”Aurel Vlaicu” din Arad, România; Agen ia de Consultan Agricol , Oficiul Jude ean de Consultan Agricol , Arad, România; S.C. Di Betta General Contract, Arad, România; Universitatea
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	<p>de Studii din Udine, Italia;  <b>responsabil proiect</b> pentru România;          Perioada de desfășurare: 2005-2007;          Valoare total : 50.000 euro; Valoare UAV: 35.000 lei          finanțat în urma câștigării locului I la competiția <b>START CUP INTERNATIONAL IDEA</b> Udine, 6 iulie 2005;</p>
	<p><b>E2. “BASTEURES-Plantele liberiene-resurse energetice strategice pentru economia Europeană”</b>, POS-CCE nr.210/2010, ID contract - 679, finanțat prin Programul Operațional Sectorial Creșterea Competitivității Economice, Axa prioritară 2 - Competitivitate prin CDI, Operațiunea 2.1.2: "Proiecte CDI de înalt nivel științific la care vor participa specialiști din străinătate", beneficiar Universitatea "Aurel Vlaicu" din Arad, I.C.D.I.S.T.N.,  <b>responsabil pachet lucru III (2010-2012) și responsabil științific proiect în 2013</b>,          Perioada de desfășurare: 2010-2013;          Valoare total : 6 842 915 lei.</p>
<b>Membru în echipa de cercetare</b>	<p><b>E3. “Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment, CPPS Cancer”</b>, PN-III-P4-PCE-2021-0639; Proiect finanțat de UEFISCDI, <a href="https://cpps-cancer.uav.ro/">https://cpps-cancer.uav.ro/</a>          Perioada de desfășurare: 2023-2026;          Valoare total : 1.199.998 LEI;</p>
	<p><b>E4. “Impactul stresului abiotic și biotic asupra plantelor datorită schimbărilor climatice – STRESSEDPLANTS”</b>, proiect UEFISCDI, PN-III-P4-ID-PCE2020-0410; <a href="https://stressedplants.uav.ro/wordpress/">https://stressedplants.uav.ro/wordpress/</a>          Perioada de desfășurare: 2020-2023;          Valoare total : 1.198.026,00 RON;</p>
	<p><b>E5. „Instalație demonstrativă pentru o tehnologie inovativă de topire a cânepii proiect.”</b>, PN-III-P-2-2.1-PTE-2016, contract 28 PTE/2016,          Link: <a href="http://itop.uav.ro">http://itop.uav.ro</a>.          Perioada de desfășurare: 2016-2018;          Valoare total : 518.001 RON;</p>
	<p><b>E6.”New Biomaterials by Enzyme Immobilization in/on Cryogel-Based Macroporous Carriers”</b>, Grant bilateral Romania - Federația Rusă , (#07-03-91682 RA_a),          Perioada de desfășurare: 2008-2009;</p>
	<p><b>E7. ”Sisteme computerizate de filtrare și separare activate cu ultrasunete și controlate cu biosenzori pentru procese textile”</b>, Proiect de Cercetare de Excelență ;          Perioada de desfășurare: 2006-2008;          Valoare total : 1.390.000 Lei din care 165000 RON pt Lei;</p>
	<p><b>E8. „Procedeu îmbunătățit de obținere a fructozei – un îndulcitor natural pentru persoanele diabetice și obeze”</b>, Grant CNCSIS cod 244;          Perioada de desfășurare: 2005-2007; valoare 51.800 RON</p>
	<p><b>E9. “Tehnologii de bio-utilizare a deșeurilor textile”</b>, program BIOTECH, subprogram III , categorie de proiect P.E.D., Contract, nr. 4521/14.12.2004, finanțator: bugetul de stat- M.Ed.C., PNCDI prin Institutul Național de Cercetare -Dezvoltare pentru Textile și Pielărie,          Perioada de desfășurare: 2004-2006; valoare 8500 RON</p>
	<p><b>E10. ORIZONT 2000 ”Studiul de literatură privind tratarea enzimatică a lânii” COD 11.1.7.”Tehnologii generice competitive – ecotehnologii – cercetări privind elaborarea de tehnologii nepoluante în domeniul textil prin tratarea enzimatică a lânii”</b>, Contract nr.281/12.05.1997 încheiat cu</p>

	<p>Ministerul Cercetării și Tehnologiei prin Centrul de Cercetări pentru Calitate și Protecția Mediului LACECA București;          Perioada de desfășurare: 1997-1998; valoare pt UAV 5.000.000 Lei</p>
	<p><b>E11. "Modelarea cineticii formării agenților poluanți din apele reziduale ale secțiilor de galvanizare"</b>, Contract nr.33/08.07.1994, Beneficiar: Centrul de Cercetări pentru Calitate și Protecția Mediului LACECA București;          Perioada de desfășurare: 1994-1995; valoare pt UAV 1.000.000 Lei</p>
	<p><b>E12. "Studiul cineticii și termodinamicii vopsirii materialelor textile și stabilirea corelației între valorile constantelor termodinamice și cinetice obținute pentru fiecare sistem tinctorial și rezistențele coloristice ale vopsirii"</b>, Contract nr.221/5.03.1992 încheiat cu Ministerul Învățământului și Științei prin Centrul de Cercetări pentru Calitate și Protecția Mediului LACECA București;          Perioada de desfășurare: 1992-1993; valoare pt UAV 1.000.000 Lei</p>
	<p><b>E13. "Reducerea consumului specific la fabricarea spirtului din porumb prin folosirea enzimelor"</b>. Contract nr. 1052/11.05.1994; Beneficiar: S.C. INDAGRARA S.A., ARAD;          Perioada de desfășurare: 1994-1995;          Valoare total : 200.000 lei;</p>

24.04. 2023

Prof. hab.dr.ing. Dorina Chambre

