

**LIST**  
**of Scientific Works**  
***Assistant professor Dr. Eng. Iolanda TOLAN***

**A. *PhD Thesis***

*Physical-Chemical Study of the Stability of Certain Food Additives under Simulated Processing Conditions* - West University of Timișoara - Faculty of Chemistry, Biology, Geography, Scientific Field: *Chemistry*

**B. *Books and Book Chapters***

**B1.** I.B. Pancan, **Iolanda Tolan**, Adina M. Bodescu, *Inorganic Chemistry*, Aurel Vlaicu University Publishing House, Arad, 2005, ISBN 973-8363-63-2, 344 pages.

**B2.** N. Dincă, F. Harja, C. Ursachi, **Iolanda Tolan**, G. Onofrei, D. Condrat, *Physical-Chemical Analyses – Practical Works*, Mirton Publishing House, Timișoara, 2004, ISBN 973-661-478-6, 64 pages.

**B3.** **Iolanda Tolan**, L. Savici, Ș. Ehling, *Analytical Chemistry – Laboratory Manual*, 2nd Revised Edition, Mirton Publishing House, Timișoara, 2001, ISBN 973-585-349-3, 96 pages.

**B4.** L. Savici, **Iolanda Tolan**, *Echilibre chimice – Course Notes*, Mirton Publishing House, Timișoara, 2001, 79 pages.

**B5.** **Iolanda Tolan**, L. Savici, Ș. Ehling, *Analytical Chemistry – Laboratory Manual*, Mirton Publishing House, Timișoara, 2000, ISBN 973-585-081-8, 46 pages.

**B6.** **Iolanda Tolan**, L. Savici, I.B. Pancan, Ș. Ehling, *Inorganic Chemistry*, Mirton Publishing House, Timișoara, 2000, ISBN 973-585-251-9, 118 pages.

**B7.** Ș. Ehling, **Iolanda Tolan**, *Practical Works in Inorganic Chemistry*, Mirton Publishing House, Timișoara, 2000, ISBN 973-585-212-8, 92 pages.

**C. *Articles/Studies in extenso Published in mainstream of International Scientific Journals***

***ISI-rated Articles***

**C1.** Simona Perța-Crișan, Claudiu Ștefan Ursachi, Bianca-Denisa Chereji, **Iolanda Tolan**, Florentina-Daniela Munteanu, *Food-Grade Oleogels: Trends in Analysis, Characterization, and Applicability*, *Gels*, 2023, 9(5), 386 (I.F. = 4.6) <https://doi.org/10.3390/gels9050386>, WOS:001020275400001.



**C2. Iolanda Tolan**, Dorina-Rodica Chambre, *Study of L-glutamic Acid Influence on the Thermal Behavior of Native Wheat Starch*, *Rev Chim Bucharest*, 2015, 66(4): 444-450.

**C3.** Mariana Anghel, Gabriela Vlase, M. Bilanin, T. Vlase, P. Albu, Adriana Fuliș, **Iolanda Tolan**, N. Doca, *Comparative Study on the Thermal Behavior of Two Similar Triterpenes from Birch*, *Journal of Thermal Analysis and Calorimetry*, 2013, 113(3): 1379-1385,  
DOI 10.1007/s10973-013-3203-3.

**C4.** Mariana Anghel, T. Vlase, Gabriela Vlase, P. Albu, N. Doca, **Iolanda Tolan**, M. Mracec, *Hyphenated Techniques Used by Evaluation of the Thermal Behaviour of Glycyrrhetic Acid*, *Revue Roumaine de Chimie*, 2012, 57 (7-8) : 747-753

#### ***BDI-Indexed Articles***

**C5.** Claudiu-Ștefan Ursachi, Simona Perța-Crișan, **Iolanda Tolan**, Bianca-Denisa Chereji, Florentina-Daniela Munteanu, *Preliminary Studies About Some Factors Influencing the Properties of Oleogels*, *Scientific and Technical Bulletin, Series Chemistry, Food Science & Engineering*, 2022, Vol. 19(XX), 34-42.

**C6. Iolanda Tolan**, Gabriela Vlase, Carmen A. Grigorie, T. Vlase, Iulia Ceban, *Thermal Behavior of Simulated Flour Under Non-Isothermal Conditions*, *Annals of West University of Timișoara, Series Chemistry*, 2012, 21(2): 103-112.

#### ***D. Other Scientific Contributions***

##### ***Presentations at International Conferences***

**D1.** Simona Perța-Crișan, Florentina-Daniela Munteanu, **Iolanda Tolan**, Bianca-Denisa Chereji, Dumitru Condrat, Lucian Copolovici, Claudiu-Ștefan Ursachi, *Partial Substitution of Pork Fat with Beeswax Oleogels for Improving the Nutritional Value of Dry Fermented Sausages*, 23<sup>th</sup> International Conference “Life Sciences for Sustainable Development,” 26-28 September 2024, Cluj-Napoca, Romania, poster.

**D2.** Simona Perța-Crișan, Florentina-Daniela Munteanu, **Iolanda Tolan**, Bianca-Denisa Chereji, Claudiu-Ștefan Ursachi, *Application of Beeswax Oleogels as Fat Replacers in Pork Liver Pâtés*, *The 21<sup>st</sup> Wellmann International Scientific Conference*, 18 April 2024, Szeged, Ungaria, poster

**D3.** Claudiu-Ștefan Ursachi, Florentina-Daniela Munteanu, Simona Perța-Crișan, **Iolanda Tolan**, Bianca-Denisa Chereji, *Edible Oleogels: Preparation, Characterization and Evaluation*, 37<sup>th</sup> *EFFoST International Conference “Sustainable Food and Industry 4.0: Towards the 2030 Agenda”*, 6-8 November 2023, Valencia, Spain, poster

**D4.** Dorina Chambre, Mihaela Dochia, Simona Gavrilaș, **Iolanda Tolan**, Gabriela Onofrei, *Quantification of Residual Pectin from Bioscoured Hemp/Cotton Fabric by FT-IR ATR Analysis*, International Symposium Research and Education in an Innovation Era 8<sup>th</sup> Edition, Plants, Environment and Human Health, 23-25 May 2019, Arad, poster

- D5.** Mihaela Dochia, Dorina Chambre, Simona Gavrilaş, **Iolanda Tolan**, Gabriela Onofrei, *Characterization of the Enzymatically Pretreated Cellulosic/Lignocellulosic Woven Fabric by FT-IR ATR and TG/DTG Analyses*, International Symposium Research and Education in an Innovation Era 8<sup>th</sup> Edition, 23-25 May 2019, Arad, poster
- D6.** Dan Danciu, **Iolanda Tolan**, Florentina-Daniela Munteanu, *Methods of Reduction of the Emissions of Polluting Gases During the Waste Composting Process*, International Symposium Research and Education in an Innovation Era 8<sup>th</sup> Edition, Plants, Environment and Human Health, 23-25 May 2019, Arad, poster
- D7.** Mihaela Dochia, Dorina Chambre, Simona Gavrilaş, Monica Pustianu, **Iolanda Tolan**, Gabriela Onofrei, *Experimental conditions influence on the thermal behavior of cotton-flax fabrics after an eco-friendly pretreatment*, International Symposium Research and Education in an Innovation Era 7<sup>th</sup> Edition, Plants, Environment and Human Health, 2018-05-17, Arad, poster
- D8.** Dorina Chambre, Mihaela Dochia, Cecilia Sîrghie, **Iolanda Tolan**, Gabriela Onofrei, Adina Maria Bodescu, *Thermal and FTIR analysis of bioscoured cellulosic fabrics*, International Symposium Research and Education in an Innovation Era 7<sup>th</sup> Edition, Plants, Environment and Human Health, 2018-05-17, Arad, poster
- D9.** Dorina Chambre, Adina-Maria Bodescu, Cecilia Sirghie, **Iolanda Tolan**, Petru Budrugaec, *Non-Isothermal Decomposition Kinetics of Oxo-Diperoxo-Molybdenum(VI)- Potassium Oxalate*, International Symposium Research and Education in an Innovation Era, 6<sup>th</sup> Edition, Chemistry and Application Fields, December 2016-10-08, Arad, poster
- D10.** Dorina Chambre, **Iolanda Tolan**, Adriana Gabriela Onofrei, *The Study of the Antioxidant Addition Influence on Fats Thermo-Oxidative Stability by Using TG/DTG/DTA data*, International Symposium Research and Education in an Innovation Era, 6<sup>th</sup> Edition, Chemistry and Application Fields, December 2016-10-08, Arad, poster
- D11.** **Iolanda Tolan**, Dorina-Rodica Chambré, *Study of L-Glutamic Acid Influence on the Thermal Behavior of Native Wheat Starch*, International Symposium Research and Education in an Innovation Era, 5<sup>th</sup> Edition, November 06-07, 2014, Arad, poster
- D12.** **Iolanda Tolan**, Gabriela Vlase, T. Vlase, Carmen A. Grigorie, N. Doca, *Thermally Induced Interaction Between Simulated Flour and Ammonium Dihydrogenphosphate*, International Symposium Research and Education in Innovation Era, Chemistry and Application Fields 4<sup>th</sup> Edition, November 08-09, 2012, Arad, poster
- D13.** **Iolanda Tolan**, Gabriela Vlase, Carmen A. Grigorie, T. Vlase, N. Doca, *Study of Thermally Induced Interactions Between Benzoic Acid and the Main Compounds of Wheat Flour*, International Symposium Research and Education in Innovation Era, Chemistry and Application Fields, 4<sup>th</sup> Edition, November 08-09, 2012, Arad, poster
- D14.** Gabriela Vlase, **Iolanda Tolan**, T. Vlase, N. Doca, *Stabilization Effect of Glutamic Acid on Wheat Amidon and the Wheat Flour*, The 11<sup>th</sup> Conference on Calorimetry and Thermal Analysis, Section Organic Materials and Pharmaceuticals (OMP), September 9-13, 2012, Zakopane, Poland, poster



**D15. Iolanda Tolan**, Gabriela Vlase, T. Vlase, N. Doca, *Thermal behavior of simulated flour under non-isothermal conditions*, The 11<sup>th</sup> Conference on Calorimetry and Thermal Analysis, Section Organic Materials and Pharmaceuticals (OMP), September 9-13, 2012, Zakopane, Poland

#### ***Presentations at National Conferences***

**D16. Iolanda Tolan**, N. Doca, *Thermal Behavior of Major Components in Wheat Flour under Non-Isothermal Conditions*, Scientific Symposium within the POSDRU 21/1.5/G/38347 project, West University, 2012, Timișoara, oral presentation.

**D17. Iolanda Tolan**, N. Doca, *Thermally induced interactions between flour components and food additives*, Scientific Symposium of PhD Students from the Faculty of Chemistry, Biology, Geography, Chemistry Field, University of the West, June 17, 2011, Timisoara, oral presentation

**D18.** Mihaela Ciurea, Simina Neagu, **Iolanda Tolan**, *Variation of calcium concentration in pasteurized and reheated cow's milk*, "Aurel Vlaicu" University Annals, "Food Engineering" series, 2000, p. 245-249, oral presentation

**D19.** L. Savici, B. Pancan, **Iolanda Tolan**, *Determining the efficiency of a wastewater treatment plant from galvanizing. Follow-up with the FIA method of the degree of purification of copper*, Symposium Timiș Academic Days, Edition IV, 27-28 May 1999, p 220-224, oral presentation.

#### ***E. Projects***

**E1.** Project Title: *Improving Nutritional Quality of Meat Products Through Innovative Technological Strategies*; Period: 2022-2024; Project Type: Demonstrative Experimental Project (PED, PN-III-P2-2.1-PED-2021-3240); Research Team Member, Project Value 593,995 Lei.

**E2.** Project title: *Biodiversity of species with high nutritional and functional value - Biodiversità di specie ad elevato valore Funzionale e Nutraceutico (BIO.FUN.)* Period: May 2015; Project type: Project financed from the European Regional Development Fund Operational Program - OP FESR 2007/2013;

Partners: Consiglio Nazionale delle Ricerche - Istituto di Bioscience e Bioresorse - (CNR - IBBR) Basilicata Region (Italy) and "Aurel Vlaicu" University of Arad (Romania), Research Team Member, Project value 130,000 Euro

**E3.** Project title: *Partnership developed for Student COUNSELING and PRACTICE in order to increase their employability - CONPRACTIS*, Project type: Project financed from the Human Resources Development Sectoral Operational Program; POSDRU/189/2.1/G/156607, August - December 2015, Project promoter: Politehnica University of Timisoara, Partner: "Aurel Vlaicu" University of Arad, Member of the implementation team - Domain Manager – Chemistry, Project value 1,032,325 Lei



**E4.** Project title: *Mures Forum - cross-border action for environmental protection*, April - September 2006, Project type: Cross-border project INTERREG III A HU-RO-SCG-1/356, Project promoter: "Szögedi Védegylet" Partners: "CSEMETE" Association - Szeged, "Aurel Vlaicu" University of Arad, Szeged City Hall, Arad City Hall, "Condor Club" Association from Arad, Team member - tasks: Content editing; Translator; Organization of the international scientific conference with the title: Mureş Forum - Communication campaign to train local communities in the greening action, Project value 458,697 HUF

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