TEZA DE DOCTORAT

"*Autentificarea uleiurilor vegetale din România prin metode spectroscopice şi cromatografice*"– **2012**, Autor: **Ing. Mihaela-Liliana Nicolae (Mihalache)**, Conducător Ştiinţific: Prof. Dr. Ing. Sorin Roşca – Universitatea Politehnica Bucureşti

ARTICOLE / STUDII IN EXTENSO PUBLICATE

1. **Mihaela Mihalache**, Aurelia Bratu, Anamaria Hanganu, Nicoleta-Aurelia Chira, Maria-Cristina Todaşcă, Sorin Roşca, "A new chemometric strategy based on ^{1}H-NMR data applied for authentication of Romanian vegetable oils", *Revista de chimie*, **2012**, *63* (*9*), 877-882, ISI, FI (2018)=1,412, ISSN 0034-7752, WOS:000310928900006, ISI.

2. **Mihaela Mihalache**, Aurelia Bratu, Anamaria Hanganu, Nicoleta-Aurelia Chira, Maria Maganu, Maria-Cristina Todaşcă, Sorin Roşca, "Thermal formation of *trans* fatty acids in Romanian vegetables oils monitored by GC-MS and FT-IR techniques", *Revista de chimie*, **2012**, *63* (*10*), 984-988, ISI, FI (2018)=1,412, ISSN 0034-7752, WOS:000311927200003, ISI.

3. Nicoleta-Aurelia Chira, Maria-Cristina Todaşcă, Alina Nicolescu, Aurelia Roşu, **Mihaela Nicolae**, Sorin-Ioan Roşca, "Evaluation of the computational methods for determining vegetables oils composition using ^{1}H-NMR Spectroscopy", *Revista de chimie*, **2011**, *62 (1)*, 42-46, ISI, FI (2018)=1,412, ISSN 0034-7752, WOS:000288339400008, ISI.

4. Aurelia Bratu, **Mihaela Mihalache**, Anamaria Hanganu, Nicoleta-Aurelia Chira, Maria-Cristina Todaşcă, Sorin Roşca, "Gas Chromatography coupled with chemometric method for authentication of Romanian cheese", *Revista de chimie*, **2012**, *63* (*11*), 1099-1102, ISI, FI (2018)=1,412, ISSN 0034-7752, WOS:000312606800004, ISI.

5. Chira, N.-A., Bratu, A. **Mihalache, M.**, Todasca, M.-C. ,Dorneanu, A., Rosca, S.-I., "Investigation on the efficiency of agrotechnical treatments applied to oilseed plants by chromatographic analysis of the fatty acid composition", *Revista de chimie*, **2014**, 65(7), 774-778, FI (2018)=1,412, ISSN 0034-7752, WOS:000345545600007, ISI.

6. Aurelia Bratu, **Mihaela Mihalache**, Anamaria Hanganu, Nicoleta-Aurelia Chira, Maria-Cristina Todaşcă, Sorin Roşca, "Quantitative determination of fatty acids from fish oils using GC-MS method and ^{1}H-NMR Spectroscopy", *U.P.B. Sci. Bull*, **2013**, 75(2), 23-32, BDI.

7. Anca Anastasiu, Aurelia Bratu, **Mihaela Mihalache**, Anamaria Hanganu, Nicoleta-Aurelia Chira,Sorin Rosca, "Comparative study of juices and wines obtained from forest fruits and grapes using 1H-NMR spectroscopy" , *U.P.B. Sci. Bull,* **2015**, 77(4), 265-274, BDI.

8. Mihaela Tociu, Maria Cristina Todașcă, **Mihaela Mihalache**, Victoria Artem, Anamaria Hanganu, Fatty Acid Profile of New Varieties of Grape Seed Oils Based on NMR Data and Their Authentication, *Revista de Chimie*, **2018**, 69, nr. 1, pp. 130-133, FI (2018) =1,412, ISI.

9. Mihaela Tociu, Maria-Cristina Todașcă, Aurelia Bratu, **Mihaela Mihalache**, Fulvia Manolache, Fast approach for fatty acid profiling of dairy products fats using ^{1}H-NMR spectroscopy, *International Dairy Journal*, **2018**, 83, 52-57. FI (2018) = 2,201, ISI.