

**Universitatea Națională de Știință și Tehnologie POLITEHNICA București**

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **Chimie Organică „C. Nenițescu”**

Nume Prenume: **Chira Nicoleta-Aurelia**

Gradul didactic: **Conferențiar**

## **L I S T A**

### **lucrărilor științifice în domeniul disciplinelor din postul didactic**

#### **A. Teza de doctorat**

Titlu: *"Analiza grăsimilor vegetale prin metode fizice moderne"*

Autor: Nicoleta-Aurelia CHIRA

Îndrumător: Prof. Dr. Ing. Sorin I. ROȘCA

Domeniul de doctorat: Chimie

#### **B. Cărți și capitole în cărți publicate în ultimii 10 ani**

1. **Chira, N.A.**; Stan, R.; Roșca, S.I.

„Chapter 2: Assessing Authenticity of Vegetable Oils”, în *„Vegetable Oil: Properties, Uses and Benefits”*, Britany Holt (Ed.), Nova Publishing, Hauppauge, New York, pg. 25-54 (30 pg), **2016** ISBN 978-1-63485- 128-2;

#### **C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. Matei, P.L.; Deleanu, I.; Brezoiu, A.M.; **Chira, N.A.**; Busuioc, C.; Isopencu, G.; Ciltea-Udrescu, M.; Alexandrescu, E.; Stoica-Guzun, A.

“*Ultrasound-Assisted Extraction of Blackberry Seed Oil: Optimization and Oil Characterization*” *Molecules* 28 (6), **2023**, article no. 2486, (2023), category Q2 (AIS 2022),

DOI: 10.3390/molecules28062486,

WOS: 000957665900001

2. Ivanova, M., Hanganu, A., Dumitriu, R., (...), Deleanu, C., **Chira, N.-A.**

“Saponification Value of Fats and Oils as Determined from 1H-NMR Data: The Case of Dairy Fats”

*Foods* 11(10), **2022**,1466, F.I. = 5.561

eISSN2304-8158

DOI: 10.3390/foods11101466,

WOS:000803146700001

3. Matei, P.L., Olteanu, B.I., **Chira, N.**, Stoica-Guzun, A.

“Extraction of Bioactive Compounds from Blackberries Pomace”

UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 84(2), **2022**, pp. 105-116.

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4. Matei P.-L.; Busuioc C.; Ionescu N.; Stoica-Guzun A.; **Chira N.-A.**

“*Cnicus benedictus* Oil as a Raw Material for Biodiesel: Extraction Optimization and Biodiesel Yield” *Sustainability* 13, **2021**, art. 13193.,

DOI: 10.3390/su132313193,

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5. Hanganu, A.; **Chira, N.-A.**

- "When detection of dairy food fraud fails: An alternative approach through proton nuclear magnetic resonance spectroscopy",  
*Journal of Dairy Science*, 104 (8), **2021**, pp. 8454 - 8466,  
DOI: 10.3168/jds.2020-19883,  
WOS: 000672155100007
6. Komartin R.S., Stroescu M.C., **Chira N.-A.**, Stan L.G.R., Stoica-Guzun A.  
"Optimization of oil extraction from *Lallemantia iberica* seeds using ultrasound-assisted extraction",  
*Journal of Food Measurement and Characterization*, 15, **2021**, pp. 2010-2020, IF=3.006,  
DOI: 10.1007/s11694-020-00790-w  
WOS: 000606365600002.
7. Raicopol, M.D. ; **Chira, N.A.** ; Pandele, A.M.; Hanganu, A.; Ivanov, A.A.; Tecuceanu, V. ; Bugean, I.G. ; Buica, G.O.  
"Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltametric detection of Hg(II) ions"  
*Sensors and Actuators, B: Chemical*, 313, **2020**; Article Number: 128030, F.I.(2019) = 7.100  
eISSN: 0925-4005  
DOI: 10.1016/j.snb.2020.128030  
WOS:000526287200011
8. Isopencu, G.; Stroescu, M.; Broșteanu, A.; **Chira, N.**; Pârvulescu, O.C.; Busuioc, C.; Stoica-Guzun, A.  
"Optimization of ultrasound and microwave assisted oil extraction from sea buckthorn seeds by response surface methodology"  
*Journal of Food Process Engineering*, 42 (1), **2019**; Article Number: e12947, F.I. = 1.955  
ISSN: 1745-4530 (online)  
DOI: 10.1111/jfpe.12947  
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9. Komartin, R.S.; Stan, R.; Bălănuță, B.; **Chira, N.**; Hanganu, A.  
"Treatment of the oil of *Lallemantia iberica* with activated adsorbents"  
*UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 81 (4), **2019**; pp.95-106.  
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10. Stoica-Guzun, A.; Pârvulescu, O.C.; Broșteanu, A.; **Chira, N.**; Stroescu, M.; Dobre, T.  
"Influence of sea buckthorn pomace pre-treatment and drying conditions on the drying kinetics, quantity and quality of seed oil"  
*Journal of Food and Nutrition Research*, 57 (4), **2018**; pp. 363-372, F.I. = 0.687  
ISSN: 1336-8672  
DOI: -  
WOS: 000451926900005
11. Isopencu, G.; Marfa, M; Jipa, I.; Stroescu, M.; Guzun, A.S.; **Chira, N.**; Popescu, M.  
"Optimisation of the Oil Extraction from *Nigella* Seeds Using Response Surface Methodology"  
*Revista de Chimie*, 68 (2), **2017**; pp. 331-336, F.I. = 0.956  
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12. A.-E. Anastasiu, **N.-A. Chira**, I. Banu, N. Ionescu, R. Stan, S.-I. Rosca  
"Oil productivity of seven Romanian linseed varieties as affected by weather conditions" *Industrial Crops and Products* 86, **2016**, pp. 219-230, F.I. = 3.449 ISSN: 0926-6690  
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13. **Chira, N. A.**; Nicolescu, A.; Stan, R.; Rosca, S.  
"Fatty Acid Composition of Vegetable Oils Determined from <sup>13</sup>C-NMR Spectra"  
*Revista de Chimie*, 67 (7), **2016**; pp. 1257-1263, F.I. = 0.956 ISSN: 0034-7752  
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14. Maganu, M.; **Chira, N.**; Stavarache, C.; Andronescu, C.; Anastasiu, A.  
 "Assessment of Maleinization Degree of Linseed Oil from Spectral Data"  
*Revista de Chimie*, 67 (2), **2016**; pp. 276-281, F.I. = 0.956  
 ISSN: 0034-7752  
 DOI: -  
 WOS:000372170700016
  
15. M. Raicopol, B. Bălănuță, K. Sliozberg, B. Schlüter, S.A. Gărea, **N. Chira**, W. Schuhmann, C. Andronescu  
 "Vegetable oil-based polybenzoxazine derivatives coatings on Zn–Mg–Al alloy coated steel" *Corrosion Science*,  
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 ISSN: 0010-938X  
 DOI: 10.1016/j.corsci.2015.08.018  
 WOS: 000363070100036
  
16. **Chira, N.**; Stan, R.; Todasca, C.; Maganu, M.; Constantinescu, T.; Gărea, S.; Rosca, S. "Azo Dye Monomer  
 Derived from Linseed Oil"  
*Revista de Chimie* 66 (7), **2015**, pp. 937-941; F.I. = 0.956  
 ISSN: 0034-7752  
 DOI: -  
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17. **Chira, N.-A.**; Rosca, S. I.  
 "Polyols Derived from Linseed oil"  
*UPB Scientific Bulletin, Series B*, 77 (4), **2015**, pp. 41-50 ISSN: 1454-2331
  
18. Anastasiu, A. E.; Bratu, A.; Mihalache, M.; Hanganu, A.; Chira, N.; Rosca, S.  
 "Comparative Study of Juices and Wines obtained from Forest Fruits and Grapes Using <sup>1</sup>H-NMR Spectroscopy"  
*UPB Scientific Bulletin Series B*, 77 (4), **2015**, pp. 265-274 ISSN: 1454-2331

#### **D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)**

##### **- Selecție cu maximum 20 lucrări în volume de conferințe**

1. **Chira, N.**; Hanganu, A.; Tociu, M.; Bratu, A.; Mihalache, M.; Popescu, L.; Sturza, R.; Ghendov-Mosanu, A.; Ivanova, M.; Ivanon, G.; Stavarache, C.; Deleanu, C., "Detection of Addition of Non-Dairy Fats to White Brined Cheese Based on <sup>1</sup>H-NMR Data and Chemometrics", 22<sup>nd</sup> Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, ROMANIA – 7-9 septembrie, **2022**;
  
2. **Chira, N.**; Raicopol, M.; Andronescu, C.; Pandele, M.; Komartin, R.; Oancea, I.A.; Stan, R., "Pellicules protectrices contre la corrosion des alliages aluminium à base d'huiles végétales et LDH-vanadate", 10eme Colloque Franco-Roumain de Chimie Appliquée – COFrRoCA 2018, 27–29 iunie, Bacau, Romania, **2018**;
  
3. Komartin, R.S.; **Chira, N.**; Bălănuță, B.; Raicopol, M.; Constantinescu, T.; Stan, R., " Epoxidized Lallemania iberica Seed Oil for Novel Ecofriendly Composite Materials Based on Renewable Resources ", 20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, Romania - September 6-9, volum de rezumate pag. 117, **2017**;
  
4. **N. Chira**, A. Hanganu, C. Stavarache, A. Oancea, R. Komartin, "Synthesis and Characterization of a Hydroxyethyl Fatty Amide Monomer from Soybean Oil", International Symposium "Priorities of chemistry for a sustainable development-PRIOCHEM, 13<sup>th</sup> edition, ICECHIM, 25-27 Octombrie, Bucharest, Romania, Book of abstracts, ISSN 2285 – 8334, pag. 98, **2017**;

5. Mihalache, M; Tociu, M.; **Chira, N.**; Bratu, A.; Todașcă, C.; Roșca, S. "*Authentiquassion du salami de Sibiu par des méthodes spectrales*", Colloque Franco-Roumain de Chimie Appliquée CoFrRoCA, Clermont-Ferrand, France, 29 iun.-01 iul., volum de rezumate pag. 117, **2016**;
6. **Chira, N.**; Raicopol, M.; Pilan, L.; Andronescu, C.; Stavarache, C.; Stan, R., "*Waterborne anticorrosive coatings from vegetable oil-based PEG-ylated polyesteramides*", European Polymer Federation (EPF) Congress 2015; June 21-26; Dresden, Germany, **2015**;
7. **Chira, N.**; Raicopol, M.; Andronescu, C.; Hanganu, A.; Stan, R., "*Composite Materials from Vegetable Oil-based Polyesteramide and Layered Double Hydroxides*" 19th European Symposium on Organic Chemistry (ESOC-19), July 12-16, Lisabon, Portugal, **2015**;
8. M. Tociu, M.C. Todasca, V. Artem, M. Mihalache, **N.A. Chira**, F. Manolache, M.D. Stanescu, "*Compositional Changes in Grapes Seed Oils from Traditional and local Romanian Red Varieties*", 3rd North and East European Congress on Food (NEEFood), May 20-23, Brașov, România, Book of abstracts pp. 146, ISSN 1844-8577, **2015**;
9. Preda, L.E.; Laslău, C.; Popa, M.; Cristea, C.; **Chira, N.**, "*Evaluation of nutraceutical potential of seed extracts from Romanian medicinal plants*", oral presentation, 12<sup>th</sup> International Conference "Students for Students", Cluj-Napoca, România, April 22-26, Book of abstracts pp 77-78, prezentare orală, **2015**.