



# LILIANA MIHALCEA

## Researcher

### RESEARCH FIELDS

---

FOOD SCIENCE AND TECHNOLOGY

### SKILLS AND EXPERTISE

---

Conventional and emerging extraction techniques of bioactive  
Microencapsulation of bioactive  
Food by-products valorization  
Innovative technologies for functional foods

### 5 RELEVANT PUBLICATIONS

---

***CO<sub>2</sub> supercritical extraction and microencapsulation of oleoresins from rosehip fruits for getting powders with multiple applications.*** CURRENT RESEARCH IN FOOD SCIENCE 6 (2023) 100449. DOI: [10.1016/j.crfs.2023.100449](https://doi.org/10.1016/j.crfs.2023.100449).

***Conjugates-based design for microencapsulation of CO<sub>2</sub> supercritical extract from red grape by-products to provide functional ingredients,*** LWT - FOOD SCIENCE AND TECHNOLOGY, 184 (2023), 114996, 1 – 9. DOI: [10.1016/j.lwt.2023.114996](https://doi.org/10.1016/j.lwt.2023.114996).

***Encapsulation of carotenoids from sea buckthorn extracted by CO<sub>2</sub> supercritical fluids method within whey proteins isolates matrices,*** INNOVATIVE FOOD SCIENCE AND EMERGING TECHNOLOGIES, 42 (2017) 120-129. DOI :[10.1016/j.ifset.2017.06.008](https://doi.org/10.1016/j.ifset.2017.06.008).

***Contribution of high pressure and thyme extract to control Listeria monocytogenes in fresh cheese - A hurdle approach,*** INNOVATIVE FOOD SCIENCE AND EMERGING TECHNOLOGIES 38 (2016) 7–14. DOI: [10.1016/j.ifset.2016.09.002](https://doi.org/10.1016/j.ifset.2016.09.002)

### CURRENT AFFILIATION

„Dunărea de Jos” University

Faculty of Food Science and Engineering

Strada Domnească Nr. 111,  
Galați, Romania

Position: Associate Professor,  
PhD

### PERSONAL INFORMATION

**E-mail :**

[Liliana.Gitin@ugal.ro](mailto:Liliana.Gitin@ugal.ro)

**ORCID ID:**

<https://orcid.org/0000-0003-4075-3907>

**Websites:**

<https://www.unicer.ugal.ro/index.php/en/about-tehnia>

<https://www.safir.ugal.ro/>

# PROJECT 9PCE/2025

**Sustainable Alternative  
Food resources for future  
food by widening  
Innovation into new  
composites with improved  
health-promoting  
pProperties**



**SAFIR**

**CO<sub>2</sub> Supercritical Fluid Extraction of Oleoresins from Sea Buckthorn Pomace: Evidence of Advanced Bioactive Profile and Selected Functionality**, 2021. ANTIOXIDANTS, 10(11) 1681. DOI: [10.3390/antiox10111681](https://doi.org/10.3390/antiox10111681).

## Cărti / Capitole cărți:

**RECENT OVERVIEW ON BEHALF CAROTENOIDS EXTRACTION FROM FOOD BY-PRODUCTS**. In: Current Perspectives in Agriculture and Food Science vol. 4, 2023. B P International, Edited by Mohammad Reza Naroui Rad, ISBN 978-81-19217-97-7 (Print), 978-81-19217-98-4 (eBook), DOI: [10.9734/bpi/cpafs/v4](https://doi.org/10.9734/bpi/cpafs/v4) (book), DOI: [10.9734/BPI/CPAFS/V4/5565B](https://doi.org/10.9734/BPI/CPAFS/V4/5565B) (chapter).

**EXTRACȚIA ASISTATĂ DE DIOXID DE CARBON SUPERCRITIC**. In: Tehnici de extracție a subproduselor de origine vegetală. Edited by Liliana Mihalcea. Ed. Galați University Press, 110 pag. ISBN 978-606-696-269-8 (Vol. 1., 2023).

**USCAREA**, In: Tehnici de extracție a subproduselor de origine vegetală. Edited by Liliana Mihalcea. Ed. Galați University Press, 110 pag. ISBN 978-606-696-269-8 (Vol. 1., 2023).

**PROCESAREA CU FLUIDE SUPERCRITICE**. Aspecte teoretice fundamentale și aplicații. 2009. Ed. Academica, ISBN 978-973-8937-58-1, 205 pag.