MEMORIU ȘTIINȚIFIC

Drd. Drăgoi (cas. Brînza) Andreea

Studii de doctorat

Perioada: 2021-2026

Conducător științific: Prof. Dr. Habil. Raluca-Ioana van Staden

Domeniu: Chimie

Titlul tezei de doctorat: Modern methods of analysis of marine extracts used in cosmetic and pharmaceutical products

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

1. Fast on-site electroanalysis of eicosapentaenoic acid ethyl ester in the liver and meat of stingray using a stochastic miniplatform based on a 3D stochastic microsensor RI Stefan-van Staden, **A Drăgoi Brînza**, DC Gheorghe, G Stanciu J Electrochem Soc, 171, 0875120, 2024, Q2 IF=3.3

2. Fast molecular recognition of docosahexaenoic acid ethyl ester in the liver and meat of stingray using a miniplatform based on a 3D stochastic microsensor RI Stefan-van Staden, **A Drăgoi Brînza**, DC Gheorghe, G Stanciu Anal.Lett., 58(15), 2569-2577, 2025, Q2 IF=1.8

3. Determination of heavy metals in seafood **A. Drăgoi-Brînza**, RI Stefan-van Staden, G Stanciu, C Cioates Negut UPB Sci Bull, 87(2), 15-22, 2025, Q4 FI=0.147

4. 2D Disposable stochastic sensor for determination of heparin from jellyfish **A. Drăgoi Brînza**, R.I. Stefan-van Staden, D.C. Gheorghe Submitted to journal

5. Intelligent miniplatform based on 3D stochastic microsensor and its application for fast on-site molecular recognition of eicosapentaenoic acid ethyl ester and of docosahexaenoic acid ethyl ester in marine algae **A Drăgoi Brînza**, RI Stefan-van Staden, RM Ilie-Mihai, G Stanciu Submitted to journal

6. Silk-based sensing strips for fast assessment of Zinc and Copper in marine algae and stingray **A Drăgoi Brînza**, RI Stefan-van Staden, RM Ilie-Mihai J Electrochem Soc., 173(5), 057501, 2026, Q2 IF=3.3

7. Ultrasensitive and fast on-site determination of hyaluronic acid in the liver of stingray **A Drăgoi Brînza**, RI Stefan-van Staden, BM Tuchiu-Stanca, IR Comnea-Stancu J Electrochem Soc, 173(13), 137501, 2026, Q2 IF=3.3

B. Participări la conferințe/workshop-uri

1. **Drăgoi Brînza Andreea**, Raluca-Ioana Stefan-van Staden, Damaris Cristina Gheorghe, Gabriela Stanciu, Validation of a new method for the assay of docosahexaenoic acid ethyl ester in the liver of stingray, poster, p. 49, Eurachem Workshop Complex Matrices: Applications, Laboratory standards and Accreditation, May 26 – 27, 2025, Library Building of National University of Science and Technology POLITEHNICA Bucharest, Romania

2. **Drăgoi Brînza Andreea**, Stefan-van Staden Raluca-Ioana, Gheorghe Damaris-Cristina, Stanciu Gabriela, Poster: "Determination of eicosapentanoic acid ethyl ester in the liver of stingray – poster PN7",

International Conference "CHIMIA" 2024, NOMARES Workshop A Constanța, 30 May 2024-01 June 2024, ISSN 2360-3941, p. 138

3. **Drăgoi Brînza Andreea**, Stefan van Staden Raluca-Ioana, Gheorghe Damaris-Cristina, Stanciu Gabriela, Determination of docosahexaenoic acid ethyl ester in the liver of stingray, S1 –P– ID 248, The 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), 4 - 7 September 2024, Mamaia - Constanța, Romania.

Student-doctorand