

ICSI Rm. Valcea

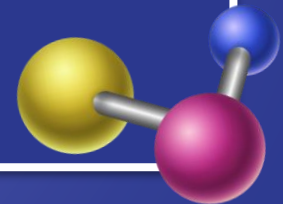
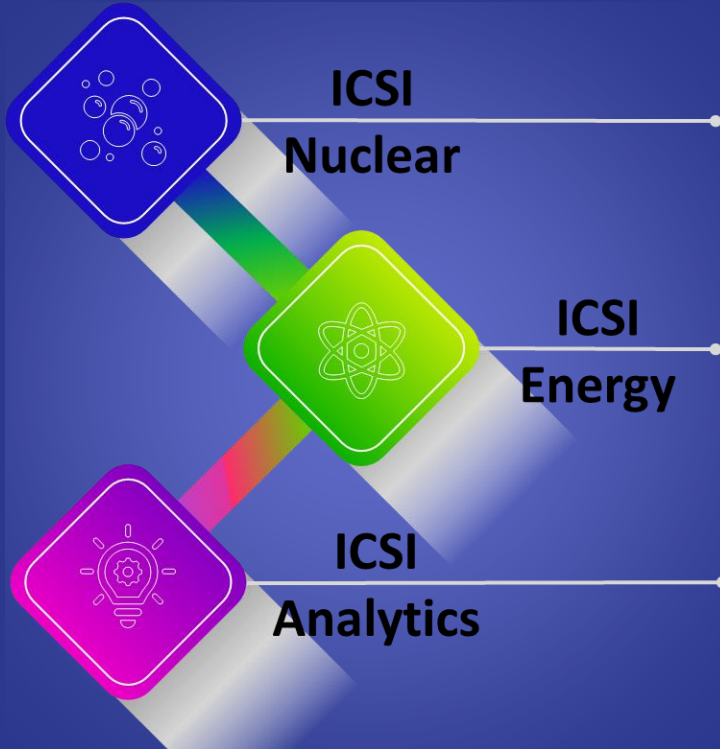
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Ph.D.**



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National Research And Development Institute For Cryogenic And Isotopic Technologies – ICSI Rm.Valcea general presentation





ICSI Analytics – research directions

01

Stable isotopes and other markers/bio-markers for environmental and life sciences application, especially focused on food safety, ecology and hydrology

02

Development of alternative methodologies to isotopic fingerprinting for characterization and classification of natural products for origin and traceability determination

03

Performing complex analytical investigations for surface and underground water to study the influence of pollution sources

04

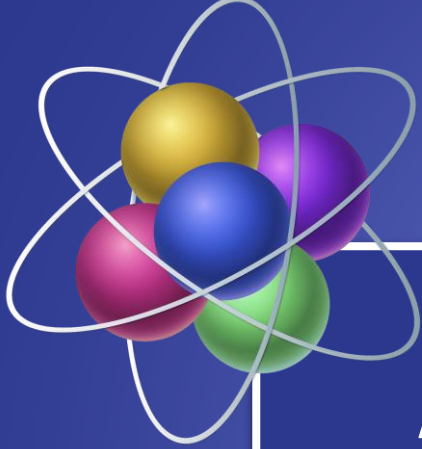
Development of innovative strategies for resources recovery through recycling of industrial waste and biomass residues for pollution reduction

05

Development of advanced-structure materials with high selectivity capacity (sorbents, catalysts, membranes, etc)

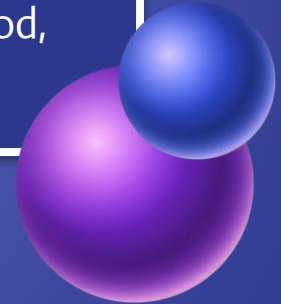
06

Gas and Fuel Characterization: develop, validate and implement advanced methods for gas analysis to monitor imissions and emissions in order to select the best energy conversion process.

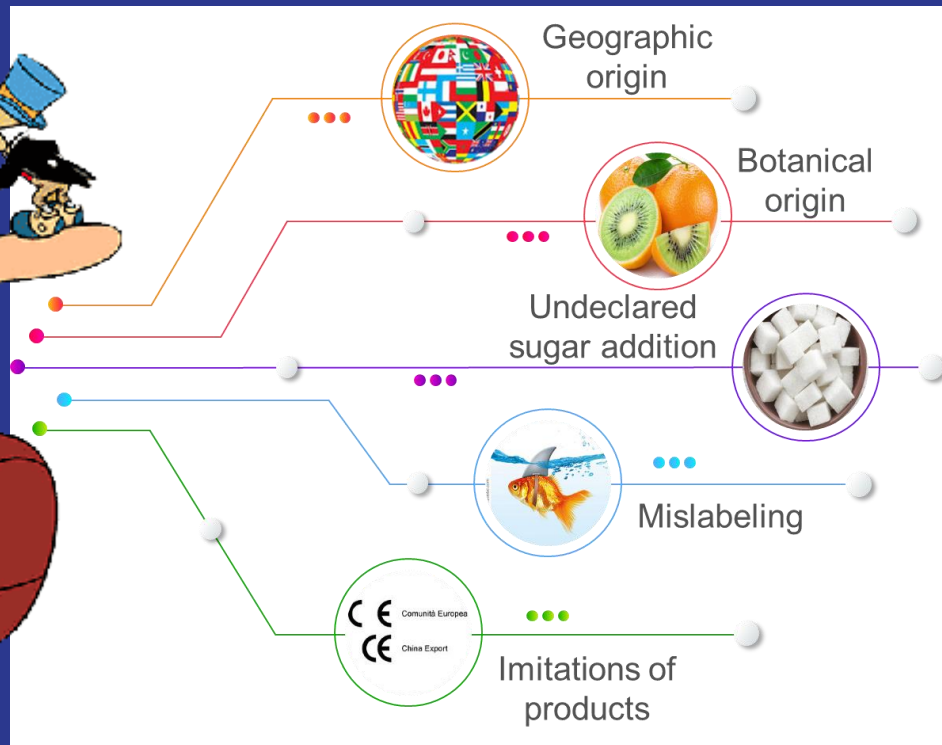
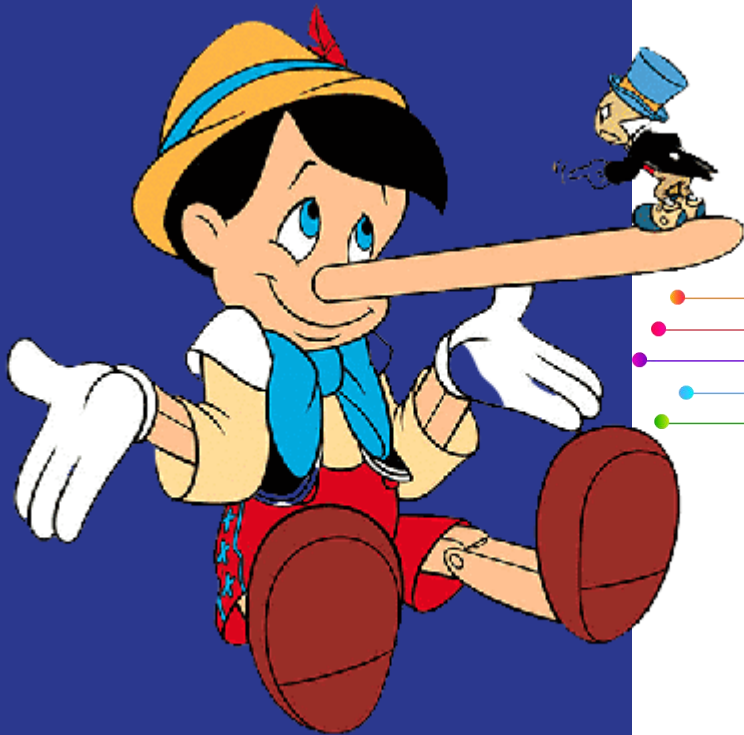


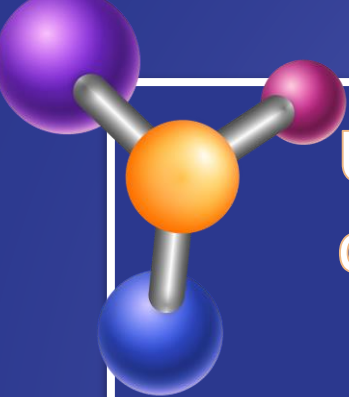
ABOUT THE **SUBJECT**

Scientific background is in chemical engineering, with main interest in isotopic data modelling for different applications, including food safety and development of advanced methods for analysis of multiple products and their metabolites in food, feed, biological and environmental matrices.



FRAMEWORK AND OBJECTIVE





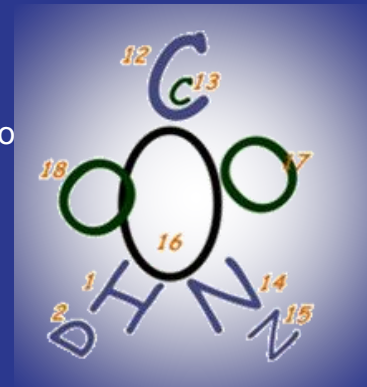
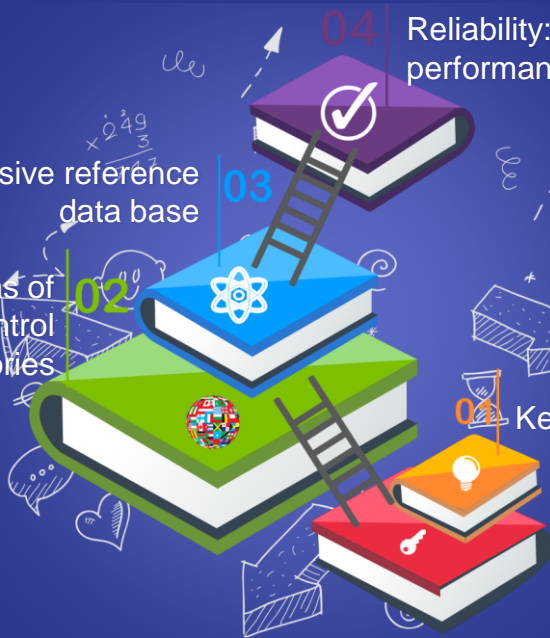
Using stable isotope techniques as official control methods

Interpretation of results: extensive reference data base

Applications that target areas of concern for food control laboratories

Reliability: robust method performance, quality control

Key requirements





Oana Botoran

"Botoran Oana Romina"

Web of Science ResearcherID [®]
AAC-7702-2020

PUBLICATIONS

24

TOTAL TIMES CITED

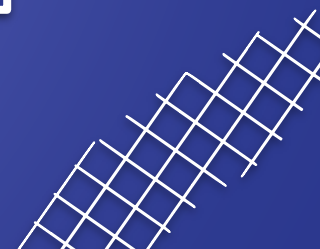
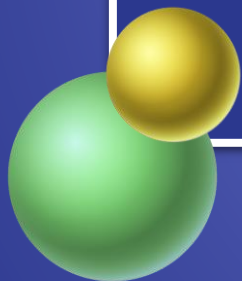
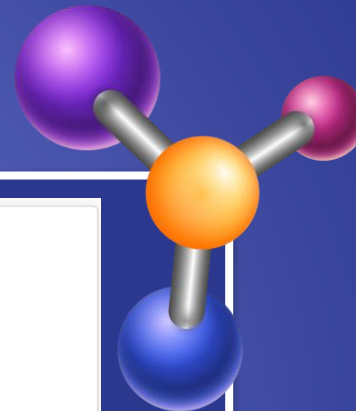
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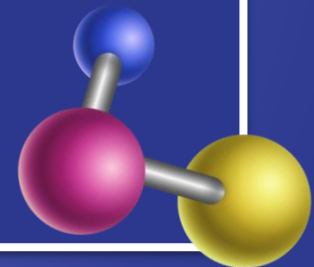
9 [®]

VERIFIED REVIEWS

18



OUR TEAM



The background is a solid blue color. It is decorated with several 3D molecular models consisting of spheres of various colors (purple, yellow, pink, blue, grey) connected by thin lines. In the top right and bottom left corners, there are white grid patterns that resemble a staircase or a series of connected squares.

THANKS!

Do you have any questions?

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<http://www.icsi.ro>