

PhD. Student Andreea-Roxana Niculae
List of papers that include data from the thesis

PAPERS LIST

1. Sulfur-doped graphene based electrochemical sensors for fast and sensitive determination of (R)-(+)-Limonene from beverages
AR Niculae, RI Stefan-van Staden, JF van Staden, R Georgescu State
Sensors, 22(15), 5851 <https://doi.org/10.3390/s22155851>, 2022 **Q2** FI=3.5
2. Electroanalysis of atrazine in water and beverages
AR Niculae, RI Stefan-van Staden
UPB Sci Bull, 86(1), 72-80, 2024 FI=0.5
3. Ultrasensitive and fast determination of β -carotene in vegetables using stochastic sensors
AR Niculae, RI Stefan-van Staden, JF van Staden
Anal.Lett., 58, 2820-2827, 2025 **Q3** FI=1.8
4. Fast screening of biological and food samples using miniplatforms based on 3D stochastic microsensors
AR Niculae, RI Stefan-van Staden, JF van Staden, RM Ilie-Mihai
Journal of the Electrochemical Society, 172, 077507, 2025 **Q2** FI=3.3
5. Nanographene based electrochemical sensors for ultrasensitive determination of sorbic acid from bread and mayonnaise
RI Stefan-van Staden, AR Niculae, JF van Staden, P Sfirloaga, R State
Anal Bioanal Chem, 414(23), 6813–6824, 2022 **Q1** FI=3.8
6. Ultrasensitive assay of atrazine in food and water samples
RI Stefan-van Staden, RA Niculae, JF van Staden
Electroanalysis, 35(12), e202300248, 2023 **Q3** FI=2.3
7. Stochastic enantioselective microsensors used for enantioanalysis of limonene in beverages
RI Stefan-van Staden, AR Niculae, JF van Staden
Journal of the Electrochemical Society, 171(9), 097514, 2024 **Q1** FI=3.8

SCIENTIFIC MEETINGS ATTENDED

1. **Andreea-Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Jacobus (Koos) Frederick van Staden, Ultrasensitive assay of atrazine in food and water samples - **poster**, Transnational Multiplier event of REALME project - A Mixed Reality E-Learning Platform Dedicated for Medical Engineering, 18 – 19 OCTOBER 2023, National University of Science and Technology POLITEHNICA Bucharest.
2. **Andreea-Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Fast screening of biological and food samples using miniplatforms based on 3D stochastic microsensors - **poster**,

Transnational Multiplier event of REALME project - A Mixed Reality E-Learning Platform Dedicated for Medical Engineering, 18 – 19 OCTOBER 2023, National University of Science and Technology POLITEHNICA Bucharest.

3. Raluca-Ioana Stefan-van Staden, **Andreea Roxana Niculae**, Rasit Ergün Yukmel, Damaris-Cristina Gheorghe, Jacobus (Koos) Frederick van Staden, Sensitive platforms for fast on-site screening of food – **oral presentation**, Euroanalysis XXI, Geneva, Switzerland, 27-31 August, 2023.
4. **Andreea-Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Jacobus (Koos) Frederick van Staden, Ultrasensitive assay of atrazine in food and water samples - **poster**, Euroanalysis XXI, Geneva, Switzerland, 27-31 August, 2023.
5. **Andreea-Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Fast screening of biological and food samples using miniplatforms based on 3D stochastic microsensors - **poster**, Euroanalysis XXI, Geneva, Switzerland, 27-31 August, 2023.
6. **Andreea Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Jacobus Frederick van Staden, Ruxandra-Maria Ilie-Mihai, Fast screening of biological and food samples using miniplatforms based on 3D stochastic microsensors – **poster**, Eurachem Workshop Complex Matrices: Applications, Laboratory Standards, and Accreditation, Bucharest, ROMANIA - May 26 – 27, 2025.
7. **Andreea Roxana Niculae**, Raluca-Ioana Stefan-van Staden, Jacobus (Koos) Frederick van Staden, Ultrasensitive and fast determination of β -carotene in vegetables using stochastic sensors - **poster**, Eurachem Workshop Complex Matrices: Applications, Laboratory Standards, and Accreditation, Bucharest, ROMANIA - May 26 – 27, 2025.