PERSONAL INFORMATION

Dr. Livia Alexandra **DINU (GUGOAȘĂ)**

21st Biserica Alexe Street, 040269, Bucharest, Romania

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Gender Female | **Date of birth** 25/11/1988 | **Nationality** Romanian
H Index = 18/14 (Google Scholar/ WOS);

Brain map ID: U-1700-037N-5552;

Orcid ID: 0000-0002-3264-2548

Researcher ID: AAP-6111-2020
https://publons.com/researcher/2016148/livia-a-dinu-gugoasa/
https://scholar.google.ro/citations?user=yuTdPgsAAAAJ&hl=ro

WORK EXPERIENCE

November 2024

Visiting Researcher

ITQB NOVA - Instituto de Tecnologia Química e Biológica António Xavier is a scientific research and advanced training institute of the Universidade NOVA de Lisboa.
Principal Investigator: ***Dr Felipe Conzuelo***

- Development of Au and Pt ultramicroelectrodes decorated with gold porous film and multicopper oxidase for studying the oxygen reduction reaction.

August 2024 – Present

Scientific Researcher I (CS I) (OMCID nr 21275/30.07.2024)

National Institute for Research and Development in Microtechnologies (IMT Bucharest), 126A Erou Iancu Nicolae Street, 077190 Voluntari (Ilfov), Romania www.imt.ro

- National/European project applications
- Electrochemical sensors and biosensors
- Microfabrication of electrochemical devices
- Wet etching process
- Chronoamperometry, Differential Pulse Voltammetry, Cyclic Voltammetry, Square Wave Voltammetry, Linear Sweep Voltammetry
- Electrochemical Impedance Spectroscopy
- Electrodeposition of metallic nanoparticles
- Molecularly imprinted polymers (MIPs)
- Microsensors design
- Functionalized screen-printed electrodes
- Biomarkers
- Phenolic and polyphenol compounds; pesticides
- Water contaminants
- Optical methods: Fluorescence, Chemiluminescence, UV-Vis
- Wet etching of thin films
- Water applications
- Biomedical applications

Nov 2021 – July 2024

Scientific Researcher II (CS II) (OM nr 609/14.10.2021)

National Institute for Research and Development in Microtechnologies (IMT Bucharest), 126A Erou Iancu Nicolae Street, 077190 Voluntari (Ilfov), Romania www.imt.ro

- National/European project applications
- Electrochemical sensors and biosensors
- Microfabrication of electrochemical devices
- Wet etching process
- Chronoamperometry, Differential Pulse Voltammetry, Cyclic Voltammetry, Square Wave Voltammetry, Linear Sweep Voltammetry
- Electrochemical Impedance Spectroscopy
- Electrodeposition of metallic nanoparticles
- Molecularly imprinted polymers (MIPs)
- Microsensors design
- Functionalized screen-printed electrodes
- Biomarkers
- Phenolic and polyphenol compounds; pesticides
- Water contaminants
- Optical methods: Fluorescence, Chemiluminescence, UV-Vis
- Wet etching of thin films
- Water applications
- Biomedical applications

May 2020 – Oct 2021

Scientific Researcher III (CS III)

National Institute for Research and Development in Microtechnologies (**IMT Bucharest**), 126A Erou Iancu Nicolae Street, 077190 Voluntari (Ilfov), Romania www.imt.ro

- Research grants fundraising
- Electrochemical sensors and biosensors
- Microfabrication of electrochemical devices
- Wet etching process
- Chronoamperometry, Differential Pulse Voltammetry, Cyclic Voltammetry, SWV, LSV
- Electrochemical Impedance Spectroscopy
- Nano/Microsensors design
- Biomarkers
- Optical methods: Fluorescence, Chemiluminescence, UV-Vis

Feb 2016 – Apr 2020

Scientific Researcher III (CS III)

National Institute of Research for Electrochemistry and Condensed Matter, Laboratory of Electrochemistry and **PATLAB**, Bucharest, Romania www.incemc.ro

- Literature survey
- Stochastic microsensors, electrochemical microsensors, multimode microsensors,
- Paste electrodes, Screen printed electrodes;
- Experimental data and results interpretation
- Chronoamperometry, Differential Pulse Voltammetry, Cyclic Voltammetry, SWV, LSV
- Electrochemical Impedance Spectroscopy
- Microsensors design
- Biomarkers
- Optical methods: Fluorescence, Chemiluminescence, UV-Vis

Responsible for 2 PhD Students and 2 Master Students

June – Sept 2018

Post-natal medical leave

Oct 2014 – Jan 2016

Scientific Researcher (CS)

National Institute of Research for Electrochemistry and Condensed Matter, Laboratory of Electrochemistry and PATLAB, Bucharest, Romania

- Literature survey
- Stochastic microsensors, amperometric microsensors, multimode microsensors
- Experimental data and results interpretation
- Chronoamperometry, Differential Pulse Voltammetry, Ciclyc Voltammetry
- Microsensors design
- Biomarkers

Business or sector Science Research

Feb 2015 – May 2015

Guest Scientific Researcher

Analytical Chemistry Department in Ruhr Universität Bochum, Germany under the supervision of Prof. Dr. Wolfgang Schuhmann

- SECM measurements for carbon paste based electrodes (CPE)
- Preparation of Pt ultramicroelectrodes (UMEs)
- CV measurements for the test of the UMEs

Business or sector Science Research

Ian 2012 – Sept 2014

Research Assistant (ACS)

National Institute of Research for Electrochemistry and Condensed Matter, Laboratory of Electrochemistry and PATLAB, Bucharest, Romania

- Literature survey
- Stochastic microsensors, amperometric microsensors, multimode microsensors
- Biosensors based on DNA
- Experimental data and results interpretation
- Chronoamperometry, Differential Pulse Voltammetry, Ciclyc Voltammetry
- Microsensors design
- Biomarkers

Business or sector Science Research

Sept 2010 - Sept 2011

Master Student – Research Assistant

Faculty of Chemistry, University of Bucharest, Romania

- Cyclic Voltammetry
- Carbon electrode preparation
- Literature survey
- Experimental data and results interpretation
- Prepare solutions and sensors
- I have assisted my attending teacher, Prof Dr Anton Ciucu, at his laboratories with 3rd

RESEARCH PROJECTS

PROJECT COORDINATOR

2025-2026 - **PN-IV-P7-7.1-PED-2024-0558** "Advancing water quality monitoring with a portable herbicide detection system for sustainable resource management" within PNCDI IV (163.000 Euro)

2023-2026 – Phase Responsible within the **Core Project PN 2307** "Advanced research in micro-nano electronic and photonic devices, sensors and microsystems for societal applications" μnanoEI within PNCDI IV (160.000Euro/Phase)

2018-2020 - **PN-III-P1-1.1-PD-2016-0190** Electrochemical and optical studies of the influence of selected substances responsible for precocious puberty (50.000 Euro)

EDUCATION

December 2015 — **PhD Degree (OMECS 5954 din 07.12.2015)**

Oct 2012 – Sept 2015 — **PhD in Chemistry**

Scrieţi nivelul EQF, dacă îl cunoaşteţi

Faculty of Applied Chemistry and Material Science, Politehnica University of Bucharest, Romania

- Electrochemical sensors
- Biosensors
- Nanomaterials
- Biomarkers for obesity, inflammation and cardiovascular diseases
- Thyroid and sexual hormones
- Biological samples – analytical applications

Oct 2010 – June 2012 — **Master of Science Degree – Chemistry of Advanced Materials**

Scrieţi nivelul EQF, dacă îl cunoaşteţi

Faculty of Chemistry, University of Bucharest, Romania

- Nano materials,
- DNA based biosensor
- Master Thesis: DNA based biosensors for the detection of neurotransmitters in biological samples Grade: 10

Oct 2007 – June 2010 — **Bachelor of Science Degree in Chemistry –Biochemistry Specialization**

Scrieţi nivelul EQF, dacă îl cunoaşteţi

Faculty of Chemistry, University of Bucharest, Romania

- Bachelor Thesis: Determination of dopamine using a chemically modified carbon paste electrode Grade: 10

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B2	B2	A2	A2	A1

Communication skills

- Teaching skills – in the lab I teach a seminar and I supervise 4 Students
- Public speaking and making presentations skills
- Very focused with coherent thinking and a good memory
- Ability to learn fast and to process the information quickly
- Good communication skills (listening and speaking);

Organisational / managerial skills

- Very good time-management – Able to create and keep deadlines
- Multitasking and ability to prioritize the most important tasks.
- Team leader skills (I was class responsible during high-school and college, and lab responsible after i have finished my PhD)
- Teamwork skills
- Goal setting
- Very organized and punctual
- Self-motivated

Job-related skills

- Ability to work under pressure
- Able to perform data analysis (experimental work in the lab);
- Familiar with AUTO Lab and IVIUM equipment and software (GPES, Nova, PSTAT, PSTrace)
- Basic SECM measurements using ultra microelectrodes;
- Able to run scientific instruments for various chemical measurements;
- pH meter, analytical balance, solution preparation, centrifuge, thermoshaker; drying oven, ultrasound bath, ultra-pure water machine; fume hood.

Computer skills

- good command of Microsoft Office™ tools and Sigma Plot, Origin, mindthegraph.com;
- operating systems: Windows, IOS and Android;
- good command of Auto Lab and IVIUM Software; SECM software

Hobbies

- photography, reading
- sports: tennis, basketball, football, snowboarding
- hiking, fishing, cycling

Driving licence

- B

ADDITIONAL INFORMATION

PATENTS

20.05.2025 ROMANIAN PATENT APPLICATION NO. A/00179 “Senzor electrochimic cu trei electrozi integrati pe suport solid cu electrozi din grafit nanocristalin” / “Electrochemical sensor with three integrated electrodes on a solid substrate, featuring nanocrystalline graphite electrodes”
Authors: Livia DINU, Catalin PARVULESCU, Octavian SIMIONESCU

PAPERS

1. Nanocrystalline graphite-patterned silicon substrates for molecularly imprinted biopolymer-based electrochemical detection of glyphosate
LA Dinu, C Parvulescu, OG Simionescu, O Brincoveanu, C Romanitan, C Pachiu, L Motelica, D. Ozsoylu, S Kurbanoglu
Applied Surface Science Advances, 32, 2026, 100940
https://doi.org/10.1016/j.apsadv.2026.100940
2. Optimization of polypyrrole (PPy) Electrodeposition for the Development of a Molecularly Imprinted Polymer Based Electrochemical Sensor
LA Dinu, O Brincoveanu, S State, C Parvulescu, C Pachiu, A Mocanu, E Geana
2025 International Semiconductor Conference (CAS) pg 39-42, ISI Paper
DOI: 10.1109/CAS66707.2025.11222320

3. Preliminary study on the direct detection of acetic acid using a palladium doped graphene nanocomposite-based electrochemical sensor
A.Aytacoglu, **LA Dinu**, F. Pogacean, S. Pruneanu, O. Brincoveanu, C. Romanitan, C Pachiu, S. Kurbanoglu
2025 International Semiconductor Conference (CAS) pg 187-190, ISI Paper
DOI: 10.1109/CAS66707.2025.11222213

4. Deep Eutectic Solvent-Assisted Synthesis of Silver Nanostructures/Carbon Composites for Enhanced Electrochemical Detection of BPA
S.State, D. Negreanu, S. Rosu, O. Brincoveanu, L.A. Dinu
2025 International Semiconductor Conference (CAS) pg 273-276, ISI Paper
DOI: 10.1109/CAS66707.2025.11222137

5. Development of smart wound dressings based on bacterial cellulose modified with hydroalcoholic propolis extracts
A Mocanu, G Isopencu, E Rusen, G Toader, A Diacon, S State, O Brincoveanu, **LA Dinu**, C Romanitan
2025 International Semiconductor Conference (CAS) pg 321-324, ISI Paper
DOI: 10.1109/CAS66707.2025.11222159

6. Prussian Blue nanocubes growth by electrochemical deposition on sulfur-doped graphene as nanozyme: optimization and application in the field of environmental sensors
O Brincoveanu, EI Geană, C Romanitan, C Pachiu, A Mocanu, S State, A Ghebaur, S Kurbanoglu, G Marolt, **LA Dinu (corresponding author)**
Applied Surface Science Advances, 26, **2025**, 100716
IF: 8.7 Q1 TOP 1
DOI: https://doi.org/10.1016/j.apsadv.2025.100716

7. Unveiling Pyroelectricity in Ferroelectric Planar Capacitors with Area-Selective Wet Etched Hafnium Zirconium Oxide: from Ab Initio and Multiphysics Simulations to Experiments
M Aldrigo, GM Zampa, M Dragoman, **LA Dinu**, F Nastase, C Romanitan, C Parvulescu, O Brincoveanu, S Iordanescu, S Vulpe, E Laudadio, E Mohebbi, E Pavoni
Journal of Physics: Energy, 6, 2024, 045005
IF 7.0 Q1
DOI: https://doi.org/10.1088/2515-7655/ad8aec

8. Electrochemical Detection of Glyphosate in Surface Water Samples Based on Modified Screen-Printed Electrodes
EI Geana, CT Ciucure, A Soare, S Enache, RE Ionete, **LA Dinu (corresponding author)**
Nanomaterials, 14 (11), **2024**, 948
IF 4.4 Q2
DOI: https://doi.org/10.3390/nano14110948

9. The development of sensitive graphene-based surface acoustic wave sensors for NO_2

detection at room temperature
V Buiculescu, **LA Dinu (co-first author)**, LM Veca, C Parvulescu, M Mihai, O Brincoveanu, F Comanescu, C Brasoveanu, M Stoian, AM Baracu
Microchimica Acta, 191, **2024**, 323
IF: 5.4 Q1
DOI: https://doi.org/10.1007/s00604-024-06397-y

10. Integrated Nanozyme Electrochemical Sensor for the Detection of Tannic Acid: An Advanced Approach to Rapid and Efficient Environmental Monitoring
LA Dinu (corresponding author), AM Baracu, EI Geana, C Parvulescu, MC Stoian, O Brincoveanu, C Pachiu, S Kurbanoglu
Applied Surface Science Advances, 21, **2024**, 100602
IF: **8.7 Q1 TOP 1**
DOI https://doi.org/10.1016/j.apsadv.2024.100602

11. Demonstration of microwave harvesting through pyroelectricity in cryogenic conditions: a quantum-to-experimental approach
M. Aldrigo, M. Dragoman, A Dinescu, D. Vasilache, S Iordanescu, **LA Dinu**, D. Dragoman, E Laudadio. E Pavoni, L Pierantoni, D Mencarelli,
IEEE Microwave and Wireless Technology Letters, **2024, 34, 853 - 856**
IF: 3.0 AIS 0.714 Q2 WOS: 001208878100001
DOI: https://doi.org/10.1109/LMWT.2024.3391214

12. Hybrid Nanomaterial-Based Indirect Electrochemical Sensing of Glyphosate in Surface Water: A Promising Approach for Environmental Monitoring
EI Geana, AM Baracu, MC Stoian, O Brincoveanu, C Pachiu and **LA Dinu (corresponding author)**
Environmental Science Processes & Impacts, 25 (12), **2023**, 2057-2066
IF: 5.5 Q1 AIS 1.04 WOS: 001087679900001
DOI: https://doi.org/10.1039/D3EM00355H

13. Enhancing electrochemical sensing through the use of functionalized graphene composites as nanozymes
LA Dinu, S Kurbanoglu
Nanoscale, 15 (41), **2023,** 16514-16538
IF 6.7 Q1 AIS WOS: 001078179600001
DOI: https://doi.org/10.1039/D3NR01998E

14. Investigation of wet etching technique for selective patterning of ferroelectric zirconium-doped hafnium oxide thin films for high-frequency electronic applications
LA Dinu, C Romanitan, M Aldrigo, C Parvulescu, F Nastase, S Vulpe, R Gavrila, P Varasteanu, AB Serban, R. Noumi, OM Ishchenko
Materials & Design, 223, **2023**, 112194
IF 8.4 Q1 AIS WOS:001060707200001
DOI: https://doi.org/10.1016/j.matdes.2023.112194

15. The non-enzymatic detection of the pollutant bisphenol A using S-graphene as nanozyme material,
LA Dinu, AM Baracu, O Brincoveanu
2022 International Semiconductor Conference (CAS), 95-98, 2022
DOI: 10.1109/CAS56377.2022.9934301

16. Sulfur-doped graphene-based surface acoustic wave sensors for NO_2 detection
AM Baracu, V Buiculescu, **LA Dinu**, C Brasoveanu
2022 International Semiconductor Conference (CAS), 269-272, 2022
DOI: https://doi.org/10.1109/CAS56377.2022.9934549

17. Electrodeposited Copper Nanocubes on Multi-Layer Graphene: A Novel Nanozyme for Ultrasensitive Dopamine Detection from Biological Samples
LA Dinu (corresponding author), S Kurbanoglu, C Romanitan, S Pruneanu, A Serban, M Stoian, C Pachiu, G Craciun
Applied Surface Science, 604, **2022**, 154392
IF 7.379 TOP 1 **WOS:** 000868420700001
DOI: https://doi.org/10.1016/j.apsusc.2022.154392

18. Recent Progress on Nanomaterials for NO_2 Surface Acoustic Wave Sensors
LA Dinu, V Buiculescu, AM Baracu
Nanomaterials, 12, 2120**, 2022**
IF 5.719 Q1
DOI: https://doi.org/10.3390/nano12122120

19. Electrochemical characterization and application of a gold microfabricated device
LA Dinu Gugoasa (corresponding author), AM Baracu, G. Craciun
2021 Proceedings of the International Semiconductor Conference (CAS), 283-286, **2021**, IEEE Publisher, ISI indexed. https://ieeexplore.ieee.org/document/9604180

20. Graphene-gold nanoparticles nanozyme-based electrochemical sensor with enhanced laccase-like activity for determination of phenolic substrates
LA Dinu Gugoasa (corresponding author), Florina Pogacean, Sevinc Kurbanoglu, Lucian-Barbu Tudoran, Andreea Bianca Serban, Irina Kacso, and Stela Pruneanu
Journal of The Electrochemical Society, 168**, 2021,** 067523 Gold OPEN ACCESS, **IF 4.312** Q1 Published 28 June 2021
WOS:000669980000001
DOI: https://doi.org/10.1149/1945-7111/ac0c32

21. Recent advances in microfabrication, design and applications of amperometric sensors and biosensors
AM Baracu, **LA Dinu Gugoasa (corresponding author)**,
Journal of The Electrochemical Society, 168**, 2021,** 037503 Published 02 March 2021, Gold OPEN ACCESS, **IF 4.312**, Q1
WOS:000625967000001
DOI: https://doi.org/10.1149/1945-7111/abe8b6

22. Gold nanoparticles - graphene quantum dots nanozyme for a wide and sensitive electrochemical determination of quercetin in plasma droplets,
C Stefanov, C Cioates Negut, **LA Dinu Gugoasa (corresponding author)**, JF van Staden,
Microchimica Acta, 187, **2020,** 611, Published 16 Oct 2020 **IF 6.21 Q1**
WOS:000578069800001
DOI:10.1007/s00604-020-04587-y

23. Myoglobin-silver reduced graphene oxide nanocomposite stochastic biosensor for the determination of luteinizing hormone and follicle stimulating hormone from saliva samples, **LA Dinu Gugoasa (corresponding author)**, RI Stefan-van Staden, JF van Staden, M Coros, SM Pruneanu,
Analytical and Bioanalytical Chemistry, 412 **2020**, 5191-5020 **IF 3.637 RED ZONE**
Early access May 2020; Published Aug 2020 WOS:000531774300003 **SRI 1.531**
DOI:10.1007/s00216-020-02663-z

24. Rapidly renewable graphite paste electrode modified with 5,10,15,20-tetrakis(4-methoxyphenyl)-21H,23H-porphine cobalt (II) for electrochemical determination of nicotinic acid,
C Cioates Negut, C Stefanov, **LA Dinu Gugoasa**, J (KOOS) F van Staden,
Journal of Electroanalytical Chemistry, 863, **2020**, 114063, **IF 3.807 RED ZONE,**
https://doi.org/10.1016/j.jelechem.2020.114063

25. Sensitive voltammetric determination of riboflavin in pharmaceutical and biological samples using FSN-Zonyl-Nafion modified carbon paste electrode
C Stefanov, C Cioates Negut, **LA Dinu Gugoasa**, J (KOOS) F van Staden
Microchemical Journal, 155, **2020**, 104729, **IF 3.594 RED ZONE**
doi.org/10.1016/j.microc.2020.104729

26. Voltammetric determination of bisphenol a with a silver-reduced graphene oxide composite paste microsensor
LA Gugoasa (corresponding author), RI Stefan-van Staden, JF van Staden, SM Pruneanu, M Coros
Proceedings of the International Semiconductor Conference (CAS), **2019**, 159-162, IEEE Xplore Digital Library, **10.1109/SMICND.2019.8923716**
WOS:000514295300033

27. Electrochemical sensors for determination of the endocrine disruptor, bisphenol A
LA Dinu Gugoasa*
Journal of The Electrochemical Society, 167(1), UNSP 37506**, IF 3.721** DOI: 10.1149/2.0062003JES **RED ZONE WOS:000499627900002;** Published online 20 nov 2019

SRI 1.923

28. Graphene-based sensors in clinical analysis
LA Gugoasa*
American Journal of Biomedical Science and Research, 3, **2019**, 361-362 **IF 0.823 (2019)**

29. Electrochemical determination of bisphenol A in saliva by a novel three-dimensional (3D) printed gold-reduced graphene oxide (rGO) composite paste **WOS:000470393800001** PUB: **02 Nov 2019**
LA Gugoasa*, RI Stefan-van Staden, JF van Staden, M Coros, SM Pruneanu,
Analytical Letters, 52(16)**, 2019,** 2583-2606 **IF 1.467 Q4**
AIS: 0.186 DOI *10.1080/00032719.2019.1620262*

30. Electrochemical sensors for the assay of zinc ions in whole blood samples
I Popa-Tudor, **LA Gugoasa**, RI Stefan-van Staden
U.P.B. Scientific Bulletin 81 **(2019)** 103-108 **ISI Journal**

31. Pattern recognition of p53 and KRAS in whole blood samples
RI Stefan-van Staden, RM Ilie-Mihai, **LA Gugoasa,** C. Stanciu-Gavan
Journal of Electrochemical Society, 166, **2019**, B183-B186 **IF 3.662 Q1**

32. Determination of Cadmium (II), Copper (II), Mercury (II), and Lead (II) in water using stochastic sensors based on graphite and diamond paste modified with 1h-pyrrole-1-hexanoic acid
RI Stefan-van Staden, JF van Staden, **LA Gugoasa**, LR Popescu-Mandoc
Analytical Letters, 52**, 2019,** 803-812 **IF 1.206 Q3**

33. Electrochemical determination of the KRAS genetic marker for colon cancer with modified graphete and graphene paste electrodes
AJ Muklive Al-Ogaidi, RI Stefan-van Staden, **LA Gugoasa**. MC Rosu, C Socaci
Analytical Letters, 51**, 2018,** 2820-2832 **IF 1.206 Q3**

34. Molecular recognition of IL-8, IL-10, IL-12, IL-15 in biological fluids using phtalocyanine-based stochastic sensors
RI Stefan-van Staden, RM Ilie-Mihai, **LA Gugoasa,** A Bilasco, CA Visan, A Streinu-Cercel
Analytical and Bioanalytical Chemistry, 410, **2018**, 7723-7737 **IF 3.307 RED ZONE**

35. Advanced methods for analysis of testosterone
LA Gugoasa, R.I. Stefan-van Staden **DOI:** 10.2174/0929867324666170724102602
Current Medicinal Chemistry, 25**, 2018,** 4037-4049 **IF 3.469 RED ZONE**
WOS:000448120700007
AIS: 0.788

36. Salivary biomarkers of inflammation in systematic lupus erythematosus,
II Stanescu, B Calenic, A Dima, **LA Gugoasa**, E Balanescu, RI Stefan-van Staden, C Baicus, DG Badita, M Greabu
Annals of Anatomy - Anatomischer Anzeiger, 219**, 2018,** 89-93 **IF 1.852 YELLOW ZONE**

37. Molecular recognition of nitrites and nitrates in water samples using graphene based stochastic microsensors
R.I. Stefan-van Staden, M Mincu, JF van Staden, **L.A. Gugoasa**
Analytical Chemistry, 90**, 2018,** 9997-10000 **IF 6.042 RED ZONE**

38. Pattern recognition of 8-hydroxy-2`-deoxyguanosine in biological fluids
RI Stefan-van Staden, LR Balahura, **LA Gugoasa,** H Aboul-Enein, JF van Staden, M.C. Rosu, S.M. Pruneanu **DOI:** 10.1007/s00216-017-0698-7
Analytical and Bioanalytical Chemistry, 410, **2018**, 115-121 **IF 3.307 RED ZONE**
WOS:000419117600014

39. Molecular recognition of pyruvic acid and folic acid in whole blood samples
RI Stefan-van Staden, AM Diaconeasa, **LA Gugoasa,** MC Rosu, S Pruneanu
RSC Advances, 7, **2017**, 50072-50078, **IF 3.289 YELLOW ZONE**

40. Nanostructured materials detect dopamine in biological fluids
RI Stefan-van Staden, LR Balahura, A Oprisanu-Vulpe, **LA Gugoasa**, JF van Staden, E-M Ungureanu, C Socaci, AS Porav,
Journal of the Electrochemical Society, 164(12), **2017**, B561-B566 **IF 3.662 Q1**

41. Determination of p53 using graphite based amperometric sensors,
RI Stefan-van Staden, AJ Muklive AL`Ogaidi, **LA Gugoasa**, H Yanik, M Goksel, M Durmus
Journal of the Electrochemical Society, 164(12), **2017,** B502-B505. **IF 3.662 Q1**

42. Molecular recognition of colon cancer biomarkers: P53, KRAS and CEA in whole blood samples
L.A. Gugoasa, A.J. Muklive AL`Ogaidi, R.I. Stefan-van Staden, C. Stanciu-Gavan, J.F. Van Staden, M.C. Rosu, S.M. Pruneanu **DOI:** 10.1149/2.1191709jes
Journal of The Electrochemical Society, 164(9), **2017,** B443-B447 **IF 3.662 RED ZONE**
WOS:000413256400045 SRI 1.984 published in 2017

43. Multimode microsensors based on Ag–TiO2–graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples
LA Gugoasa, AJ Muklive AL`Ogaidi, RI Stefan-van Staden, A El-Khatib, MC Rosu, S Pruneanu,
RSC Advances, 7, 2017, 28419-28426 IF 3.289 YELLOW ZONE
WOS:000402999300055 published in 2017

44. A new potentiometric sensor for the assay of P53 in blood samples
AJ Muklive AL`Ogaidi, RI Stefan-van Staden, **LA Gugoasa**, JF van Staden, H Yanik, M Goksel, M Durmus
U.P.B. Scientific Bulletin 79 **(2017)** 113-119 **ISI Journal**

45. Pattern recognition of adipokines in whole blood samples using stochastic sensing
L.A. Gugoasa, R.I. Stefan-van Staden, O.C. Rusu
Microsystem Technologies, 22 **(2016)** 11-16 **IF** 0.875**/1.513 GREY ZONE**

46. New platforms for fast assessment of levels of testosterone, dihydrotestosterone and estradiol in children's saliva
L.A. Gugoasa, R.I. Stefan-van Staden, J.F. van Staden, B. Calenic, J. Legler
Analytical Letters, 49 (2016) 335-341 **IF 1.206 GREY ZONE**

47. Stochastic sensing determination of serum and salivary interleukin-6 in low disease activity systematic lupus erythematosus patients
LA Gugoasa, A. Dima, CA Visan, A. Streinu-Cercel, A Biris, B Calenic, RI Stefan-van Staden
Clinical and experimental rheumatology, 33(3), 2015, S27**, IF 2.724/3.238 GREY ZONE**
WOS:000360421900098

48. Fast screening of biological fluids for cytokines and adipokines using stochastic sensing
LA Gugoasa, RI Stefan-van Staden, A Dima, C.A. Visan, A. Streinu-Cercel, A. Biris, B. Calenic
Microelectronic Engineering, 148 (2015) 64-69 **IF 1.277/1.654 GREY ZONE**

49. New nanocomposites-graphene pastes based stochastic microsensors
R.I. Stefan-van Staden, **L.A. Gugoasa**, C. Socaci, A.R. Biris
RSC Advances, 5 (2015) 66185-66191 **IF 3.289 YELLOW ZONE**

50. Multimode microsensors based on carbon matrices used for the assay of IL-6 in whole blood
L.A. Gugoasa, R.I. Stefan-van Staden
ECS J Solid State Sci Technol, 4(10) (2015) S3006-S3010 **IF 1.650 GREY ZONE**

51. Pattern recognition of monocyte chemoattractant protein-1 (MCP-1) in whole blood samples using new platforms based on nanostructured materials
R.I. Stefan-van Staden, **L.A. Gugoasa**, Biris A.R.; **DOI:** 10.1039/c5nr03064a
Nanoscale 7(36), 14848-14853**, 2015** Outside back cover **IF** 7.760**/7.233 RED ZONE**
WOS:000360831100007

52. Novel Textile Material Based Disposable Sensors for Biomedical Analysis,
R.I. Stefan-van Staden, **L.A. Gugoasa**, M. Badulescu, C.C. Surdu-Bob,
RSC Advances 5 (2015) 45545-45550 **IF 3.289 YELLOW ZONE**

53. Multimode sensors as new tools for assessing the levels of testosterone, dihydrotestosterone and estradiol in children's saliva
L.A. Gugoasa, R.I. Stefan-van Staden, B. Calenic, J. Legler
Journal of Molecular Recognition 28(1) (2015) 10-19 **IF** 2.091**/1.919 GREY ZONE**

54. Pattern recognition of estradiol, testosterone and dihydrotestosterone in children' s saliva samples using stochastic microsensors
R.I. Stefan-van Staden, **L.A. Gugoasa**, B. Calenic, J. Legler
Scientific Reports 4 (2014) 5579 DOI: 10.1038/srep05579 **IF** 5.578/**4.011 RED ZONE**

55. Amperometric microsensors based on inulins for the assay of L-T3 and L-T4,
L.A. Gugoasa, R.I. Stefan-van Staden, G. Bazylak, J.F. van Staden, G.L. Radu,
U.P.B. Scientific Bulletin 76(3) (2014) 67-74 **ISI Journal**

56. Screening of children saliva samples for bisphenol A using stochastic, amperometric and multimode microsensors
R.I. Stefan-van Staden, **L.A. Gugoasa**, B. Calenic, J.F. van Staden, J Legler
Analytical Chemistry Research 1 (2014) 1-7 **Elsevier Journal**

57. A genetic screening test for obesity based on stochastic sensing
R.I. Stefan-van Staden, **L. A. Gugoasa,** J.F. van Staden, O. C. Rusu
Journal of The Electrochemical Society, 161(9), 2014, B167-B170. **IF 3.662 Q1**

58. Influence of the physical immobilization of dsDNA on the carbon-based matrices of electrochemical sensors
L. A. Gugoasa, R.I. Stefan-van Staden, A.A. Ciucu, J.F. van Staden
Current Pharmaceutical Analysis, 10(1), 2014, 20-29. **IF 0.885 Q4**

Book Chapter

1. **LA Dinu Gugoasa***, C Negut Cioates, C Stefanov. *Chapter 12 Electrochemical applications of inorganic materials doped quantum dots in Electroanalytical Applications of Quantum Dot Based Biosensors*, **2021** 395-425; Editor Bengi Uslu, **Elsevier**

Invited Lecture

1. *Electrochemical Sensing with Molecularly Imprinted Polymers: Tailored Selectivity for Agri-Environmental Applications, Livia DINU,* ***17th International Conference on Physics of Advanced Materials (ICPAM-17), November 16th-23rd 2025, Hamamatsu, Japan***

2. *Doped graphene nanohybrid materials as artificial enzymes for electrochemical sensing application, Online September 22 2025,* ***The 5th International Online Conference on Nanomaterials (IOCN 2025)***

3. *Advancing Electrochemical Sensing and Biosensing with Nanozymes and Artificial Recognition Elements April 7-14th* ***2025, 10th International Congress on Biomaterials and Biosensors (BIOMATSEN-2025), Oludeniz, Turkey***

4. *Nanozyme-based Graphene Hybrids for Advanced Electrochemical Sensing in Environmental and Biomedical Fields, September* ***2024, The 16th International Conference on Physics of Advanced Materials (ICPAM-16), Antalya, Turkey***

5. *Metallic nanoparticles-graphene nanohybrids as artificial enzymes for environmental and biomedical electrochemical applications, April 18-24th* ***2024, 9th International Congress on Biomaterials and Biosensors (BIOMATSEN-2024), Oludeniz, Turkey***

6. *Metallic nanoparticles-graphene nanohybrids as artificial enzymes for environmental and biomedical electrochemical applications,* ***October 27-29th 2021 International Conference on Biotechnology and Bioengineering (11th ICBB),*** *Virtual event*

7. *Electrochemical Determination of Bisphenol A in Saliva by Novel Three-Dimensional (3D) Printed Gold-Reduced Graphene Oxide (rGO) Composite Paste Electrode*, **February 19th-20th 2020, The International Conference on Medicinal Chemistry & Drug Discovery, Amsterdam, The Netherlands**

8. *Stochastic sensors as screening tools for obesity and related diseases*, **3rd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC16" – 28-31st August 2016**, Iasi, Romania

9. 2015-**invited lecture at a PhD Workshop** held at Ruhr University, Bochum, Germany;

Oral Presentations

1. From Marine biowaste to Paracetamol Electrochemical Sensing, 48th Edition of the International Semiconductor Conference - CAS 2025, Sinaia, România, 7-11 Octombrie 2025, M. Pomana, A. Brandao, O. Brincoveanu, C. Romanitan, V. Jose, V. Jesus, P. Carlos, **LA Dinu**, S.State

2. Integration of palladium–graphene nanohybrids on Si-based electrochemical sensors for food quality monitoring, The 5th European Biosensor Symposium (EBS 2025) Tarragona, Spain, 26-29th October **LA Dinu**, F Pogacean, C Parvulescu, O G Simionescu, A Aytacoglu, O Brincoveanu, C Romanitan, C Pachiu, S State, B Vasile, A Mocanu, S Kurbanoglu,

3. Doped graphene based nanozyme for ultrasensitive electrochemical detection of pollutants**,** The 2025 Fall Meeting of the European Materials Research Society (E-MRS) 26-29 September 2025 **LA Dinu,** C. Parvulescu, O. Brincoveanu, C. Pachiu, S. State, M. Aldrigo,

4. Biomass-derived carbon materials modified with gold nanoparticles for acetaminophen sensing, The 2025 Fall Meeting of the European Materials Research Society (E-MRS) 26-29 September 2025 S State, M. Pomana, B. Ana, P. Carlos, V. José A., V. Jesús, O Brincoveanu, **LA Dinu**

5. Electrodeposition of Prussian Blue (PB) nanoparticles on graphene as artificial enzymes for the development of environmental sensors, 47th edition of the International Semiconductor Conference - CAS 2024, Sinaia, România, 8-11 Octombrie 2024, **LA Dinu**, O. Brîncoveanu, C. Romanitan, C. Pachiu

6. Integrating molecularly imprinted chitosan with nanocrystalline graphite or gold electrodes for the enhanced sensing of glyphosate, 19th International Conference on Electroanalysis (ESEAC-2024), Ulm, Germania, 23-26 Iulie 2024, **LA Dinu**, AM Baracu, EI Geana, C Parvulescu, O Simionescu, O Brincoveanu, A Mocanu, P Varasteanu, S Kurbanoglu

7. Generating pyroelectric current with patterned ferroelectric hafnium oxide thin films, *15th International Conference on Physics and Advances Materials (ICPAM-15)*, Sharm El-Sheik, Egypt, November 19-26, 2023, **Livia Dinu**, M. Aldrigo, C. Parvulescu, C. Romanitan, F. Nastase, O. Brincoveanu, M. Dragoman, S. Iordanescu

8. Surface Acoustic Wave sensors based on molecularly imprinted biopolymer for herbicide detection, *The 15th International Conference on Physics of Advanced Materials (ICPAM-15),* Angela Baracu, **Livia Dinu**, Valentin Buiculescu, Catalin Pârvulescu, Oana Brîncoveanu, Dumitru Manica, Sharm El Sheikh, Egypt, November 19 – 266, 2023

9. Multiclass pesticide residues in surface water collected from middle and lower course of Olt River, Romania, EI Geana, CT Ciucure, **LA Dinu,** Interdisciplinary workshop "Modern approaches to feedback between environmental processes and climate change", Galati, September 20-23, 2023

10. Enabling high selectivity in electrochemical sensing for agricultural applications through the integration of microfabricated devices with artificial recognition elements, **L.A. Dinu**, A.M. Baracu, P. Vărășteanu, O. Brîncoveanu, C. Pârvulescu, The 46th International Semiconductor Conference CAS 2023 (an IEEE event) October 13-15, 2023

11. Gold-Decorated Graphene Hybrid Nanomaterial Integrated with A Sensing Device for Agricultural Applications - **L.A. Dinu**, I. Geana, A. Baracu, M. Stoian, O. Brincoveanu, C. Pachiu, The 20th International Conference on Nanosciences & Nanotechnologies (NN23), July 3-8, Thessaloniki, Greece

12. A preliminary study on the synthesis and characterization of a crown ether based covalent organic framework, A. Bujor, **L. Dinu**, C. Romanițan, M. Stoian, V. Țucureanu, O. Brâncoveanu, G. Crăciun, P. Ioniță, M. Kusko, The 45th International Semiconductor Conference CAS 2022 (an IEEE event) October 12-14, 2022

13. Electrochemically synthesized copper nanocubes as nanozyme for dopamine detection from

plasma samples – **LA Dinu**, S Kurbanoglu, C Romanitan, S Pruneanu, AB Serban, M.C. Stoian, C Pachiu, G Craciun, The 45th International Semiconductor Conference CAS 2022 (an IEEE event) October 12-14, 2022

14. Graphene-gold nanoparticles nanozyme-based electrochemical sensor with enhanced laccase-like activity for determination of phenolic substrates, **LA Dinu Gugoasa***, F Pogacean, S Kurbanoglu, L Barbu Tudoran, AB Serban, I Kacso, S Pruneanu, 18th International Conference on Electroanalysis ESEAC 2022 June 5-9, 2022, Vilnius, Lithuania

15. Ultra-Sensitive Electrochemical Determination of Quercetin Using Gold Nanoparticles and Graphene Quantum Dots from Plasma Droplets **- LA Dinu**, CC Negut, C Stefanov, JF van Staden - The 43rd International Semiconductor Conference CAS 2020 (an IEEE event) October 7-9, 2020, virtual event **BEST PAPER AWARD**

16. Molecular recognition of IL-8, IL-10, IL-12, and IL-15 in biological fluids using phthalocyanine based stochastic sensors, RM Ilie, RI Stefan-van Staden, **LA Gugoasa**, A Bilasco, CA Visan, A Streinu-Cercel, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd, Bucharest, Romania. **BEST ORAL PRESENTATION AWARD** Sponsored by the **Romanian Chapter of ACS**

17. Molecular Recognition of C-Reactive Protein, Adiponectin and Zn^{2+} in serum samples, I Popa-Tudor, RI Stefan-van Staden, **LA Gugoasa,** C Ionescu-Tirgoviste, The 11th Annual Congress of the Romanian Medical Association, April 22-24th 2017, Romanian Academy, Bucharest, Romania.

18. Assessment of P53 using graphite based amperometric sensors, AJ Muklive AL-Ogaidi, **LA Gugoasa**, RI Stefan-van Staden, 12th Edition of PRIOCHEM, October 27-28th 2016, Bucharest, Romania

19. New nanostructured material detects 8-hydroxy-2`-deoxyguanosine, LR Balahura, RI Stefan-van Staden. **LA Gugoasa**, JF van Staden, HY Aboul-Enein, MC Rosu, C. Socaci, 3rd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC16" – 28-31st August 2016, Iasi, Romania

20. Determination of P53 using graphite and graphene based amperometric sensors, AJ Muklive AL-Ogaidi, **LA Gugoasa**, RI Stefan-van Staden, 3rd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC16" – 28-31st August 2016, Iasi, Romania

21. Pattern recognition of colon cancer biomarkers from whole blood samples using stochastic sensors, **LA Gugoasa**, RI Stefan-van Staden, IR Comnea-Stancu, C Stanciu-Gavan, ACS on Campus, 13th of May 2016, Bucharest, Romania

22. A new approach of biological fluids screening for early diagnosis of diabetes, RI Stefan-van Staden, C Ionescu-Tîrgovişte, **LA Gugoasa**, The 10th ANNUAL CONGRES of ROMANIAN MEDICAL ASSOCIATION, 25-27 April 2016, Bucharest, Romania **EXCELLENCE DIPLOMA**

23. New tools for prediction and assessment of obesity in children, RI Stefan-van Staden, **LA Gugoasa**, The 4th International Symposium of ADIPOBIOLOGY AND ADIPOPHARMACOLOGY (ISAA), 28-31 October 2015, Bucharest, Romania

24. Multimode microsensors based on carbon matrices for the screening of whole blood for IL-6, RI Stefan-van Staden, **LA Gugoaşă**, 227th ECS Meeting in Chicago, Illinois, USA, 24-28 May 2015

25. Novel fabric materials used for stochastic sensing in whole blood samples, **LA Gugoasa**, RI Stefan-van Staden, 2nd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC14" – September 17-21, 2014, Targoviste, Romania. **ISSN 2061-9248**

26. Pattern recognition of estradiol, testosterone and dihydrotestosterone in children saliva samples

using stochastic sensing, **LA Gugoasa**, RI Stefan-van Staden, B.Calenic, The 3rd International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences *"IC-ANMBES 2014"* – June 13-15, 2014 Brasov,Romania

27. Multimode sensors for BPA assay in children's saliva, **LA Gugoașă**, RI Ștefan-van Staden, JF van Staden, B Calenic, International Conference CHIMIA 2014 "New trends in applied chemistry" 23 – 24 May 2014, Constanta, Romania

28. New Tools for the Screening for Obesity, RI Stefan-van Staden, **LA Gugoașă**, JF Van Staden, 223rd ECS Meeting in Toronto, Ontario, Canada, May 2013

Member in Research Projects

1. 2025-2027 PN-IV-P7-7.1-PED 2024-0167 Sistem portabil cu detectare în timp real a poluanților și transmisie de date fără fir pentru educația STEM
2. 2024-2029 Project „National Platform for Semiconductor Technologies" – PNTS – Predefined priority project under the program "Smart Growth, Digitalization, and Financial Instruments 2021-2027."
3. 2024-2027 „Powering Satellites by a Combination of Solar and Microwave Energy Harvesting (POWERSAT)", under the European Commission grant number: HORIZON-EIC-2023-PATHFINDERCHALLENGES-01-052022-2024
4. 2022-2024 PN-III-P2-2.1-PED-2021-3279 Development of sensitive and selective sensors for glyphosate detection in water samples using molecular imprinting technique integrated with surface acoustic wave technology.
5. 2021-2023 PN-III-P4-ID-PCE-2020-1712 Engineering low dimensional heterostructures for boosting the performances of on-chip 3D energy storage/power delivery device
6. 2020-2022 PN-III-P2-2.1-PED-2019-1300 Plasmonic and dielectric metasurface platforms for fluorescence enhancement
7. 2018-2022 - PN-III-P4-ID-PCCF-2016-0006 - Graphene-based stochastic sensors for molecular diagnosis of upper gastro-intestinal cancer
8. 2017-2019- PN-III-P4-ID-PCE-2016-0120 Stochastic microsensors for the assay of biomarkers specific to diabetes
9. 2017-2018 – PN-III-P2-2.1-PED-2016-0181 - Development of dedicated automated realtime detection systems to monitor and control selected "toxic" target substances to lower their impact and improve quality of sustainable daily life
10. 2017-2018– PN-III-P2-2.1-PED-2016-0392 Laboratory technology of new biomarkers for the detection of leukemia using materials based on graphene
11. 2015-2017 Core Project PN 16/12/20 – "Sensor development based on innovative materials for leukemia"
12. 2014-2017 PN-II-PT-PCCA-2013-4-1097 – Multimode microsensors based on micro and nanostructured materials with applications in biomedical analysis
13. 2014-2015 – Billateral Project Romania-Cyprus – The use of chiral ionic liquids and inulins in electrolysis and micelar electrokinetic chromatography for clinic enantioanalysis
14. 2012-2016 - PN-II-ID-PCE-2011-3-0538 -Hightech-based Micro/Nanostructured Sensors Devices and Microreactors in Real-time for Automated Process Analytical Multianalyte Platform Systems

15. 2012-2015 **FP7 – DENAMIC** – Toxin influence on the development of brain of children
16. 2012-2014 PN-II-CT-ERC-2012-1 ERC-Like: Stochastic Approach for early diagnosis of cancer.
17. 2012-2014 National Project - Top Technology sensors based on micro/nanostructures and microreactors in real time for analytical process of system platform mutlianalytical type
18. 2011-2016 PN-II-ID-PCE-2011-3-0570 Stochastic Microsensors as New Tools for Assay of Substances of Biological Importance.
19. 2009-2013 **FP7-OBELIX** OBesogenic Endocrine disrupting chemicals: LInking prenatal eXposure to the development of obesity later in life

Poster Presentations

1. Hand-held Electrochemical Potentiostat for Herbicide Detection, 48th Edition of the International Semiconductor Conference - CAS 2025, Sinaia, România, 7-11 Octombrie 2025, P. Epure, M. Mitrea, **LA Dinu**
2. Nanocrystalline graphite grown and patterned on silicon wafers as a novel substrate for molecularly imprinted biopolymer-based electrochemical sensors, 35th Anniversary World Congress on Biosensors (**Biosensors 2025**), Lisbon, Portugal, May 19-23, **2025, LA Dinu**, O Simionescu, C Parvulescu, O Brincoveanu, A Mocanu, C Pachiu, M Aldrigo
3. Next-Generation Temperature-Responsive Hydrogels Incorporating Polypyrrole and MXenes for Actuator Systems, 35th Anniversary World Congress on Biosensors (**Biosensors 2025**), Lisbon, Portugal, May 19-23, **2025,** A Mocanu, A Diacon, G Toader, **LA Dinu**, P Varasteanu, O Brincoveanu
4. Microfabricated vs. Printed Sensors: Designing High-Performance Solutions for Biomedical and Environmental Use, 35th Anniversary World Congress on Biosensors (**Biosensors 2025**), Lisbon, Portugal, May 19-23, **2025;** Cristina Pachiu, Catalin Parvulescu, Oana Brincoveanu, Octavian Buiu, **LA Dinu**, Roxana Marinescu, Nicolae Dumbravescu, Pericle Varasteanu
5. Dual enhanced peroxidase-like activity of Fe_2O_3 supported on sulfur-doped graphene for electrochemical detection of polyphenolic class of pollutants from waste waters, 33rd Anniversary World Congress on Biosensors (**Biosensors 2023**), Busan, South Korea, June 5-8, **2023**, **Livia Dinu**, Angela Baracu, Sevinc Kurbanoglu, Marius Stoian, Cristina Pachiu, Oana Brincoveanu, Irina Geana
6. Microfabricated three-electrode system integrated with an enzyme-like nanomaterial for the detection of phenolic compounds, Smart Systems Integration Conference & Exhibition (**SSI2023**), Bruges, Belgium, March 28-30, **2023**, **L.A. Dinu,** A. Baracu, O. Brincoveanu, M. Stoian, C. Pachiu, C. Parvulescu
7. Surface acoustic wave sensors for NO_2 detection based on sulfur-doped graphene, A Baracu, V Buiculescu, **LA Dinu**, C Brasoveanu, R Müller, The 45th International Semiconductor Conference CAS 2022 (an IEEE event) October 12-14, 2022
8. Analytical methods for the determination of glyphosate in water samples: a brief revew, The 21st International Conference “Life Sciences for sustainable development" - 2022 Cluj-Napoca, România, September 15-17, **2022**, EI Geana, C Ciucure, **LA Dinu**, AM Baracu
9. Area-selective wet chemical etching of ferroelectric zirconium-doped hafnium oxide ultra-thin films for high frequency electronics, 14th International Conference on Physics and Advances Materials (**ICPAM-14**), Dubrovnik, Croatia, September 8-15, **2022**, **L. A. Dinu**, M. Aldrigo, C. Romanitan, F. Nastase, S. Vulpe, R. Gavrila, A.B. Serban
10. Electrochemical detection of glyphosate based on molecularly imprinted polypyrrole-modified gold electrode and dispersed gold nanoparticles on reduced graphene oxide, 23rd International Conference “New Cryogenic and Isotope Technologies for Energy and Environment" - **EnergEn 2021** Băile Govora, Romania**, October 26 – 29, 2021,** EI Geana, CT Ciucure, A Soare, S Enache, **LA Dinu (corresponding author)**
11. Myoglobin-reduced graphene oxide based stochastic microsensors for molecular recognition of LH and FSH from saliva samples, LA Gugoasa, RI Stefan-van Staden, JF van Staden, M Coros, S

Pruneanu, **XX Euroanalysis Conference**, 1-5 September **2019**, Istanbul, Turkey **SPECIAL POSTER PRESENTATION AWARD** Sponsored by the World Scientific Books.

12. Molecular recognition of C reactive protein, adiponectin, and Zn^{2+} in serum samples, I Popa-Tudor, RI Stefan-van Staden, **LA Gugoasa**, C Ionescu-Tirgoviste, RA Stoica, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd, Bucharest, Romania. **BEST POSTER PRESENTATION AWARD Sponsored by the Romanian Chapter of ACS**

13. Screening of whole blood samples for p53, RM Ilie, RI Stefan-van Staden, **LA Gugoasa**, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd , Bucharest, Romania

14. Graphene-based stochastic microsensors as tools for simultaneous recognition of nitrites and nitrates in water samples, M Mincu, RI Stefan-van Staden, JF van Staden, LA Gugoasa, RL Popescu-Mandoc, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd **2018**, Bucharest, Romania. **BEST POSTER PRESENTATION AWARD Sponsored by the Romanian Chapter of ACS**

15. New tools for screening for interleukins, **LA Gugoasa**, RI Stefan-van Staden, RM. Ilie, 20th Romanian International Conference on Chemistry and Chemical Engineering (**RICCCE**), September 6-9th **2017**, Poiana Brasov, Romania

16. Heavy metals detections using stochastic microsensors, IG Lazar, RI Stefan-van Staden, **LA Gugoasa,** JF van Staden, E Diacu, ARA Conference, August 2-5th **2017**, Sinaia, Romania

17. Screening whole blood test for P53, R.M. Ilie, RI Stefan-van Staden, **LA Gugoasa**, The 11th Annual Congress of the Romanian Medical Association, April 22-24th **2017**, Romanian Academy, Bucharest, Romania

18. Determination of dopamine from blood and urine samples, R.L. Balahura, RI Stefan-van Staden, **LA Gugoasa**, The 11th Annual Congress of the Romanian Medical Association, April 22-24th **2017**, Romanian Academy, Bucharest, Romania

19. Molecular recognition of colon cancer biomarkers using stochastic sensors, **LA Gugoasa**, AJ Muklive AL-Ogaidi, RI Stefan-van Staden, C. Stanciu-Gavan, S.M. Pruneanu, The 11th Annual Congress of the Romanian Medical Association, April 22-24th **2017**, Romanian Academy, Bucharest, Romania

20. Evaluation of P53 tumor suppressor gene using graphite based amperometric sensors, AJ Muklive AL-Ogaidi, RI Stefan-van Staden, **LA Gugoasa**, C. Stanciu-Gavan, 6th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY - **2017** (EEC-2017), Chisinau, Republic of Moldova

21. Evaluation of KRAS biomarkers using graphite and graphene based amperometric sensors, AJ Muklive AL-Ogaidi, RI Stefan-van Staden, **LA Gugoasa**, C. Stanciu-Gavan, 6th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY - **2017** (EEC-2017), Chisinau, Republic of Moldova

22. Evaluation of KRAS biomarkers using graphite based amperometric sensors, AJ Muklive AL-Ogaidi, **LA Gugoasa**, RI Stefan-van Staden, 12th Edition of PRIOCHEM, October 27-28th **2016**, Bucharest, Romania

23. Fast screening of whole blood samples for colon cancer biomarkers, **LA Gugoasa**, RI Stefan-van Staden, IR Comnea-Stancu, C Stanciu-Gavan, 12th Edition of PRIOCHEM, October 27-28th **2016**, Bucharest, Romania

24. Determination of KRAS using graphite and graphene based amperometric sensors, AJ Muklive AL-Ogaidi, **LA Gugoasa**, RI Stefan-van Staden, 3rd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC16" – 28-31st August **2016**, Iasi, Romania

25. Stochastic sensors for the pattern recognition of PPAR-γ from cerebrospinal fluid samples, **LA Gugoasa**, RI Stefan-van Staden, EUROANALYSIS 18, European Conference of Analytical

Chemistry, Bordeaux, France, 6-10 September 2015

26. Fast assay of monocyte chemoattractant protein-1 (MCP-1) in whole blood samples using stochastic sensing, **LA Gugoasa**, RI Stefan-van Staden, EUROANALYSIS 18, European Conference of Analytical Chemistry, Bordeaux, France, 6-10 September 2015

27. Pattern recognition of IL-6 in whole blood samples using stochastic sensing, **LA Gugoasa**, RI Stefan-van Staden, C Stanciu-Gavan, 2nd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "RO-ICAC14" – September 17-21, 2014, Targoviste, Romania

28. New Sensors for the assay of hormones responsible for obesity **LA Gugoasa**, RI Stefan-van Staden and JF van Staden, ROMPHYSCHEM 15 – September 2013, Bucharest, Romania

Membership

- Electrochemical Society (ECS), USA. Sensors Division
- American Chemical Society (ACS), USA.

Conference Awards

- ***2020 – BEST PAPER AWARD– at the 43rd Edition of the International Semiconductor Conference (CAS 2020) – an IEEE Event,*** *held online, 7-9 October 2020* - Ultra-Sensitive Electrochemical Determination of Quercetin Using Gold Nanoparticles and Graphene Quantum Dots from Plasma Droplets; **LA Dinu**, CC Negut, C Stefanov, JF van Staden.

- ***2020 - PAPER AWARD IN THE "YOUNG RESEARCH FORUM" International Conference on Medicinal Chemistry & Drug Discovery, Amsterdam, Netherlands, February 19th -20th 2020;*** *Electrochemical Determination of Bisphenol A in Saliva by Novel Three-Dimensional (3D) Printed Gold-Reduced Graphene Oxide (rGO) Composite Paste Electrode,* ***LA Dinu Gugoasa****, RI Stefan-van Staden, JF van Staden, M Coros, S Pruneanu,*

- ***2019 – BEST STUDENT PAPER AWARD – at the 42nd Edition of the International Semiconductor Conference – an IEEE Event,*** *held in Sinaia, Romania, 9-11 October 2019; Voltammetric determination of bisphenol A based on a silver-reduced graphene oxide composite paste microelectrode,* ***LA Gugoasa****, RI Stefan-van Staden, JF van Staden, M Coros, S Pruneanu*

- ***2019 - SPECIAL POSTER PRESENTATION AWARD Sponsored by the World Scientific Books,*** *Myoglobin-reduced graphene oxide based stochastic microsensors for molecular recognition of LH and FSH from saliva samples,* ***LA Gugoasa****, RI Stefan-van Staden, JF van Staden, M Coros, S Pruneanu,* ***XX Euroanalysis Conference****, 1-5 September 2019,* ***Istanbul, Turkey***

- ***2018 – BEST ORAL PRESENTATION AWARD Sponsored by the Romanian Chapter of ACS.*** Molecular recognition of IL-8, IL-10, IL-12, and IL-15 in biological fluids using phthalocyanine based stochastic sensors, RM Ilie, RI Stefan-van Staden, **LA Gugoasa**, A Bilasco, CA Visan, A Streinu-Cercel, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd, Bucharest, Romania.

- ***2018 – BEST POSTER PRESENTATION AWARD Sponsored by the Romanian Chapter of ACS:*** Molecular recognition of C reactive protein, adiponectin, and Zn^{2+} in serum samples, I Popa-Tudor, RI Stefan-van Staden, **LA Gugoasa**, C Ionescu-Tirgoviste, RA Stoica, 4th Romanian International Conference on Analytical Chemistr (RO`ICAC2018), September 1-3rd , Bucharest, Romania.

- ***2018 – BEST POSTER PRESENTATION AWARD Sponsored by the Romanian Chapter of ACS:*** Graphene-based stochastic microsensors as tools for simultaneous recognition of nitrites and nitrates in water samples, M Mincu, RI Stefan-van Staden, JF van Staden, **LA Gugoasa**, RL Popescu-Mandoc, 4th Romanian International Conference on Analytical Chemistry (RO`ICAC2018), September 1-3rd 2018, Bucharest, Romania

- ***2017 – EXCELLENCE DIPLOMA for Poster Presentation:*** Molecular recognition of colon cancer

biomarkers using stochastic sensors, **LA Gugoasa**, AJ Muklive AL-Ogaidi, RI Stefan-van Staden, C. Stanciu-Gavan, S.M. Pruneanu, The 11th Annual Congress of the Romanian Medical Association, April 22-24th 2017, Romanian Academy, Bucharest, Romania.

- ***2016 – MEDAL CONSTANTIN LUCA AWARD FOR THE BEST YOUNG ANALYTICAL CHEMIST –*** *Sponsored by* ***American Chemical Society*** *for EXCELLENCE IN RESEARCH*

- ***2014 – BEST POSTER AWARD*** –Pattern recognition of IL-6 in whole blood samples using stochastic sensing, **LA Gugoasa**, RI Stefan-van Staden, C Stanciu-Gavan, 2nd International Conference on Analytical Chemistry – Analytical Chemistry for a Better Life "**RO-ICAC14**" – Sept 17-21, 2014, Targoviste, Romania

Article Awards financed by UEFISCDI

- **2023-** ***PN-IV-P2-2.3-PRECISI-2023-68938 – TOP 1 10000 RON***
  PN-IV-P2-2.3-PRECISI-2023-76794 – Q2, 2000 RON
- ***2021- PN-III-P1-1.1-PRECISI-2021-54592 – Q1 6000 lei***
  PN-III-P1-1.1-PRECISI-2021-53404 – Q1 6000 lei

- ***2020 - PN-III-P1-1.1-PRECISI-2020-50703 – Q1, 6000 lei***
  PN-III-P1-1.1-PRECISI-2020-42140 – Q1 6000lei
  PN-III-P1-1.1-PRECISI-2020-40892 – Q1 6000lei
  PN-III-P1-1.1-PRECISI-2020- - Q1 6000 lei

- ***2019 - PN-III-P1-1.1-PRECISI-2019-35127 - Q1*****, 6.000 lei**

- ***2018 - PN-III-P1-1.1-PRECISI-2018-25851 – Q1*****, 6.000 lei**
  - PN-III-P1-1.1-PRECISI-2018-28663 – Q1**, 6.000 lei**
  - PN-III-P1-1.1-PRECISI-2018-28690 - Q1**, 6.000 lei**
  - PN-III-P1-1.1-PRECISI-2018-28576 – Q2**, 2.000 lei**
  - PN-III-P1-1.1-PRECISI-2018-27189 – Q1**, 6.000 lei**

- ***2017 - PN-III-P1-1.1-PRECISI-2017-19313 – Q2*****, 2.000 lei**
  PN-III-P1-1.1-PRECISI-2017-20520 – Q2**, 2.000 lei**
  PN-III-P1-1.1-PRECISI-2017-19319 - **Top 1, 10.000lei**
  PN-III-P1-1.1-PRECISI-2017-19315 - **Top 1, 10.000lei**

- ***2015 - PN-II-RU-PRECISI-2015-9-9985 – Q2*****, 2.000 lei**
  - PN-II-RU-PRECISI-2015-9-9986 – Q1**, 4000 lei**
  -PN-II-RU-PRECISI-2015-9-9985 – Q2**, 2.000 lei**

- ***2014 - PN-II-RU-PRECISI-2014-8-6210 - Q1*****, 4000 lei**
  - PN-II-RU-PRECISI-2014-8-6454 – Q1 **4000 lei**

Scholarships/Fellowships

April 2014 – Oct 2015

- **PhD Fellowship**: Sectorial Operational Programme Human Resources Development 2007-2013 of the Ministry of European Funds through the Financial Agreement **POSDRU/159/1.5/S/134398**.

Editor Activity

- **2021 –** Guest Editor at **Applied Sciences Journal**

  https://www.mdpi.com/journal/applsci/topic_editors

- **2022-2023 -**Guest Editor at **Biosensors Journal**

  https://www.mdpi.com/journal/biosensors/special_issues/K3505JJ75P

- **2024 –** Review Editor at **Frontiers in Coatings, Dyes and Interface Engineering**

  https://loop.frontiersin.org/people/2670780/overview

Reviewer Activity

- **2024** – Chemosensors,

  Sensors,

  Analytical Letters

  Micromachines

  Journal of the Electrochemical Society
- **2023** – Chemosensors
  - Biosensors
- **2022 –** Analytica Chimica Acta Journal from Elsevier Publisher

  Biosensors - Journal from MDPI Publisher

  Sensors (IF=3.275) – Journal from MDPI Publisher

  Micromachines (IF=2.523) – Journal from MDPI Publisher
- **2021 -** Journal of the Electrochemical Society **(IF=3.72) –** Journal from IOP Publisher

  Analytica Chimica Acta **(IF=5.97) –** Journal from Elsevier Publisher

  Sensors (IF=3.275) – Journal from MDPI Publisher

  Micromachines (IF=2.523) – Journal from MDPI Publisher

  Microchemical Journal (IF=3.8) – Journal from Elsevier Pulisher
- **2020 –** Journal of the Electrochemical Society **(IF=3.72) –** Journal from ECS Publisher

  Analytica Chimica Acta **(IF=5.97) –** Journal from Elsevier Publisher

  Microchimica Acta **(IF=6.23)–** Journal from Springer Publisher

  Analytical Letter **(IF=1.46)** – Journal from Taylor and Francis Publisher
- **2016 –** Revue Roumaine de Chimie **(IF=0.43)** – Journal from the Romanian Academy