

## APPLICATION FOR AWARD

### 1. Candidate

Surname: **van Staden**

Surname before marriage: **Stefan**

Name: **Raluca-Ioana**

PhD awarded in 1997, with habilitation obtained in 2013.

Position: **Senior Researcher, and Head of Laboratory of Electrochemistry and PATLAB**

Institution: **National Institute of Research and Development for Electrochemistry and Condensed Matter**

Position: **Professor – Scientific adviser for PhD students**

Institution: **National University for Science and Technology Politehnica of Bucharest**

Mobile:

Email:

2. **Edition “Gala Cercetării Românești”**
3. **The award: e) Chemistry – “Raluca Râpan” Award; and category a) individual**
4. **Leader of the team: Yes. The candidate built the team of the Laboratory of Electrochemistry and PATLAB.**
5. **The composition of the team: Not applicable**
6. Description of the most important scientific achievements from the past 5 years
7. Curriculum vitae of the candidate
8. List of publications
9. Research projects for which the candidate was director of project
10. Patent awarded to the candidate

**Required documents for Annex 2/ Selection sheet**

1. Papers published in Q1 zone
2. Citation in Web of Science/Clarivate
3. Research projects for which the candidate was director of project
4. Invitations as invited professor/researcher to prestigious institutions
5. Editorial activities

6. Cumulative influence score

Although, myself – like none of the Romanian scientists is between the highest cited researchers in their field (unfortunately), my citations accordingly with Web of Science is as following:

**Web of Science ResearcherID:  
W-9855-2019**

**H-Index: 44**

**Publications in  
Web of Science 402**

**Sum of Times Cited 22,684**

**Citing Articles 19,704**

**Sum of Times Cited by Patents 417**

**Citing Patents 407**

## Curriculum vitae

**Raluca-Ioana van Staden (b. Stefan)** was born on 16<sup>th</sup> of July 1969 in Campulung-Muscel, Arges.

**Education** In 1992 she obtained the BSc degree – with the highest average (9.98 out of 10) being the leader of the students graduating Faculty of Chemistry, University of Bucharest in 1992; she obtained the PhD degree from the same faculty in 1997. Raluca also had a BSc degree from the National University of Music, Bucharest (1996), being specialised in piano and musical education, with a MSc degree in musical composition obtained in 1998.

**Employments** She was employed to date by Faculty of Chemistry, University of Bucharest (1992-1998) as Assistant Professor, Department of Chemistry, University of Pretoria as postdoc (1998-2000), and as Associate Professor of Analytical Chemistry and Bioanalysis (2001-2006). Since 2007, Raluca is employed as Senior Researcher I and Head of Laboratory of Electrochemistry and PATLAB, National Institute of Research and Development for Electrochemistry and Condensed Matter, and from 2013 by National University of Science and Technology Politehnica of Bucharest as Professor - Scientific adviser for PhD students.

## Results of the research

**Publications** Raluca published 394 papers in peer-reviewed journals, 3 books and 15 chapters in books.

A total number of 112 papers were published in journals found in Q1 zone; from these, 25 papers were published in the past 5 years in journals found in Q1 zone.

A value of the indicator:  $\sum_1^{394} \frac{AIS}{n_i} = 131.152965$  was obtained for the papers published since the beginning of the research career.

For the past 5 years, the value calculated for this indicator was:  $\sum_{261}^{394} \frac{AIS}{n_i} = 37.9101$ .

134 papers and 4 chapters in books were published in the past 5 years.

The most relevant papers published in the past 5 years are:

In the field of biomedical analysis:

- The papers related to early diagnosis of diabetes: nr. 269, 271, 287, 345

- The papers related to early diagnosis of cancer based on utilisation of stochastic sensors as screening tools: nr. [279, 285, 290, 296, 299, 307, 310, 328, 349, 353, 369, 377, 379](#)

In the field of pharmaceutical analysis: nr. [351, 364, 370](#)

In the field of food analysis: nr. [266, 275, 277, 342, 361, 383](#)

Raluca was author and corresponding author in 380 papers out of 394 papers published. Only 5 papers are published as co-author in the past 5 years. A pioneers on stochastic sensors, enantioselective sensors and diamond paste sensors she brought in the past 5 years the sensors' technology to a very high level; cost-effective sensors and screening methods were developed for biomedical, pharmaceutical and food analysis. Screening methods for early detection of diabetes and cancer proposed by Raluca may be used for mass screening of population to improve the state of health of population. Results obtained using the stochastic sensors were classified and used for developing algorithms for fast non-invasive diagnosis of cancer, and differentiation between gastric and colon types of cancers. Uniformity content tests of ointments/topical pharmaceutical formulations can be done *on-site* using stochastic platforms. Food safety can be checked using portable instrumentation based on stochastic sensors. Enantioanalysis with stochastic sensors takes the metabolomics of cancer to a higher level, when mechanisms of DNA damage can be better explained based on results obtained using these sensors. These tests are unique in the world, Raluca receiving many invitations for plenary and invited lectures to chemistry and even medicine (cancer conferences) conferences, and to publish perspectives and feature papers in journals.

Raluca is the main author of the [three books](#) published by prestigious international press: CRC Press, Marcel Dekker Inc and Taylor and Francis, and of the [15 chapters in books](#), published by Wiley, Elsevier, Marcel Dekker, Springer, Royal Society of Chemistry. [Five chapters in books](#) were published as corresponding author by Raluca in the past 5 years, by invitation from the editors of the books.

The [patents](#) awarded are applied at this stage for pre-clinical studies of screening tests using stochastic and multimode sensors integrated in platforms. First results of the studies are shown in the papers related to differentiation of different types of colon and gastric cancers by non-invasive analysis of urine and saliva [[365, 372, 385, 388](#)]; algorithms unique in the world at this stage.

### **The impact of the research activity**

**Accordingly with Web of Science (ResearcherID: W-9855-2019), Raluca's H-Index is 44. Her work was cited by over 22,684 (citing articles 19,704), cited by patents 417 (citing patents 407). Majority of citing papers are published in Q1 zone.**

**The [patents](#) awarded** are applied at this stage for pre-clinical studies of screening tests using stochastic and multimode sensors integrated in platforms. The screening tests developed are cost-effective, and will be able to be applied for the mass screening of population, improving the quality of life, and reducing the costs with treatment of cancer in late stages.

Also, implementation of screening tests for food security will make possible determination of toxins and pesticides before the food is sent to the market. The impact of the papers published on stochastic sensors for food safety was proved by the invitation received to be part of a COST type of project, with participants from European countries and from South Africa, a program related to food safety and security in EU.

### **Funding of research**

**My first funds for research were obtained from the Element6 company in South Africa, a company specialised in natural and synthetic diamonds, in 2001.** For obtaining the funds I have to prepare a project related with utilisation of diamond as sensor material; the project had to be done by a MSc student at University of Pretoria, under my supervision. Three projects were selected for presentation in front of the board of the company. My project win, I obtained the MSc students with the related funds needed for research activities; the company produce the first porous synthetic diamond (today in the market as porous diamond) for sensors' design. The value of the project was 30,000Euro.

Raluca's research was very good funded through competitions organized by national and international funding agencies. Projects funded are found in the list [Research Projects](#) for which she was Director of project (11 projects), or responsible from the partner (2 projects). A total of 4,829,298euro was obtained by Raluca through competitions organised by national and international funding agencies. From this amount, [in the past 5 years](#) the value of the funds obtained for the 3 research projects was 3,283,578Euro.

Three partnerships type of projects, from which one in the past five year were funded with Raluca as Director of project; the partners were universities from Bucharest, Timisoara, Targu-Mures, research institutes of Romanian Academy from Timisoara, and INCD from Cluj-Napoca, and one SME (a private clinic) from Bucharest. Four international projects were funded following competition: the DENAMIC, FP7 project brought a large number of partners

together from universities, research institutes, and hospitals from Europe; the three bilateral projects were done in cooperation with University of Cyprus and with University from Chisinau.

#### **Participation in national and international conferences**

Raluca was invited with [38 plenary/keynote/invited lectures](#) to national and international conferences, from which ten invitations were for the past five years. She also presented more than 200 oral presentations and poster to the international conferences.

#### **Invitations as guest professor/researcher**

Prof Dr habil Raluca-Ioana van Staden received regularly invitations as invited professor and researcher from universities, e.g., University Tor Vergata, Rome Italy; University Yamagata, Yamagata, Japan; University Antwerpen, Antwerpen, Belgium; **University of Vienna**, Vienna, Austria; **University of the Witwatersrand**, Johannesburg, South Africa, **University of Istanbul**, Istanbul, Turkiye; **University of California Berkeley**, USA; **Friedrich-Schiller-University of Jena**, **Leibniz Institute of Photonic Technology**, University of Ankara, Turkiye.

[Attached to this document](#), for the past 5 years period of time, please, find attached the invitation of Professor Mehmet Mahramanlioglu from **University of Istanbul** to present a short course and organize a session during the EUROANALYSIS 2019, a conference organized at University of Istanbul.

Unfortunately, due to travel restrictions during pandemics, extended until 2021, and even in 2022, I could not travel as invited professor or researcher, although there were invitations.

Recently, I received invitations from University of Ankara, Turkiye, and **Friedrich-Schiller-University of Jena**, **Leibniz Institute of Photonic Technology** to be guest professor and researcher (see the invitations attached) and to partner for EC research projects.

Collaboration with National Research Centre from Cairo is on-going for developing new methods of analysis for pharmaceutical compounds, and biomedical analysis.

A collaboration with Department of Chemistry, Jamia Millia Islamia, New Delhi, India on the invitation of Professor Imran Ali (Ph.D., C Chem, FRSC, Highly Cited Researcher Clarivate; Rank: 01 Indian & 24 Global (Anal. Chem.) as per 2% Scientists list Stanford Univ. USA.) started in 2023.

## Professional service performed

**Expert referee and panel member** (from 2001) for National Council of Scientific Research in Higher Education and the National Authority for Research, Ministry of Research, Innovation and Digitization, and UEFISCDI Romania, National Research Foundation South Africa, Bulgarian National Research Found, Czech Republic, Poland and Portugal – research projects.

**Invited lectures** at: de Beers Research Center, Johannesburg, February 2001. SACI, **Raikes Medal Lecture**, February 2003, **Invited lectures** given to different universities, e.g., University of Vienna, Wits University, University of Bucharest, University of Antwerpen, University Babes Bolyai, Cluj, University California at Berkeley; and for professional societies: American Chemical Society – San Francisco Section; Electrochemical Society – San Francisco Section. Invited lectures at TEDx Bucharest, 15 October 2010 and at TEDx Eroilor, Cluj-Napoca, December, 2011.

**Invited short courses** by ECS at San Francisco (2011, 2 short courses on sensors for clinical and pharmaceutical analysis), and ECS Meeting Seattle (2012, short course on enantioselective clinical analysis), by American Chemical Society at San Francisco (2011, 2 short courses on sensors for clinical and pharmaceutical analysis), by Division of Analytical Chemistry of EUCHEMs, at EUROANALYSIS (2011, one short course on quality and reliability in analytical chemistry) Belgrade, Serbia, and by ECS Sensor Division (2016, nanosensors for clinical analysis); **in the past five years invited short course by University of Istanbul – during the EUROANALYSIS conference in Istanbul, August 2019, Invited short course on bioanalysis by University of Geneva during the EUROANALYSIS Conference in Geneva, August 2023.**

**Judge** in the national photographic competition: SA Science Lens, South Africa; in the national competition: Gala of the Prizes for Education, Foundation “Dinu Patriciu”, 2011, Section Research, Romania; PRO INVENT (International Invention Salon), Romania, March 2013; **for poster competition for Sensors Division at ECS meetings in USA (permanent member of poster adjudication)**, and for the presentations at SmaSys 2015 conference, Japan.

Invited for **live interviews** by SABC Africa, programme 180 degrees and by Radio fm 95.9mHz - Johannesburg, 26 July 2004, South Africa; Invited for interview by Radio Romania Actualitati, Radio Romania Cultural, RadioNet3 Radio Romania International, TVR, B1, PROTV, PROTV international, Realitatea TV, Antena, TVRM, Trinitas, Money Channel, RomaniaTV.



**Member of awards committee for Raikes Medal, SACI, South Africa (2022), and for 2024 Sensor Division Awards subcommittee from the Electrochemical Society, USA.**

**Editorial activities:**

**Guest editor for:**

1. Analytical Letters – Special issue dedicated to the memory of Professor George Emil Baiulescu, Analytical Letters 43 (7-8), 2010
2. Sensors/MDPI – Special issue: Electrochemical Sensors for Food, Pharmaceutical and Biomedical Analysis, 2020-2023
3. Journal of Oncology – Special issue: From Molecular Genetics to Diagnosis and Therapy of Gastric Cancer, 2020-2021
4. Life, MDPI – Special issue on Serum and Tissue Biomarkers in Cancer: A Translational Approach, 2021-2023
5. Journal of the Electrochemical Society, Special issue on Women in Electrochemistry, 2021
6. Chemistry, MDPI for a special issue: Chemistry in Romania

**Topic Editor:**

1. Frontiers in Oncology – Advanced Molecular Targets in the Diagnosis and Treatment of Gastrointestinal Cancers
2. Frontiers in Sensors – Electrochemical (Bio)sensors for early diagnosis of cancer
3. Frontiers in Genetics - Prognosis and Diagnosis of Hepatocellular Carcinoma

**Review Editor** Frontiers in Bioengineering and Biotechnology - for Biosensors and Biomolecular Electronics.

**Academic editor:** Journal of Oncology: 2022-2023

**Member of Editorial boards:**

Analytical Letters, Taylor and Francis; Sensors, MDPI; Egyptian Pharmaceutical Journal, Wolter Kluwer Health/MedKnow; ECS Sensors Plus (journal of the Electrochemical Society).

**Books published/chapters in books:** Raluca published 3 books and 15 chapters in books, from which 5 chapters in books were published in the past five years. All are published in prestigious international press like, CRC Press, Marcel Dekker Inc, Taylor and Francis, Wiley, Elsevier, Springer, Royal Society of Chemistry.

**National and international awards** A high number of national and international awards were obtained by the candidate, as following:

1997 - *Wilhelm Simon award* - a six month Scholarship, by the ICSC – World Laboratory Lausanne, Switzerland

1999 - *IUPAC award for Young Scientist*

2001 - *Exceptional Young Researcher, University of Pretoria*

2002 - *President Award, National Research Foundation, South Africa*

2002 - *Raikes Medal, South African Chemical Institute*

2003 - **together with Dr KI Ozoemena, as postdoc** *Claude Harris Leon Foundation award*

2004 – Special mention in the Women in Science L’Oreal UNESCO competition – South Africa

2009 – **Second Prize** on the competition **Gala of Prizes in Education, Section: Research**, organized by Foundation “Dinu Patriciu”, **Bucharest, Romania, 2009.**

2010 – **Diploma of Excellence for the activity of invention** from ANCS (National Authority of Scientific Research), Romania, 8 June 2010, Bucharest, Romania.

2010 – **Diploma of Excellence for the representation with success of Romania to Salon International des Inventions de Geneve 2010**, from ANCS (National Authority of Scientific Research), Romania, 8 June 2010, Bucharest, Romania.

2010 – **Romanian Oscar for Excellence**, 11 October 2010, Bucharest, Romania.

2010 – **VIP Prize for Science and Life**, 1 September 2010, Bucharest, Romania.

2010 – **Honorary Citizen of Campulung-Muscel**

2010 – **Honorary Citizen of Arges county**

2010 – **Prize of National TV, Nationala Internationala for the invention activity**

2010 – **Prize: 10 for Romania for Research**

2010 – **The prize of Argesul Newspaper “Omul Anului”**

2010 – **Gala Successful Women, Prize for Excellence in Research and Medical fields**

2010 – **Women of the Year, Section Science, awarded by Advantage Magazine**

2011 – **Prize “Omul Anului”**, from organization Pro Democratia, Demos TN, Targu Neamt, December, 2011.

2012 – **Gogu Constantinescu Order and Medal, Degree Comandor**, Cluj-Napoca

2012 – **Best Poster Award** for a poster on stochastic sensor used for the screening of hepatitis B, 1<sup>st</sup> International Conference on Analytical Chemistry, Targoviste, September 2012

2012 – **Henri Coanda Gold Medal**, National Conference on Research and Innovation, Bucharest, Romania

2013 – **Prize “She Business” for excellence in research** for developing a screening method for early detection of breast cancer

2017- Prize Radar de Media for the Research Activities

**In the past 5 years:**

**2019- Gheorghe Spacu Medal and Award from the Romanian Society of Chemistry**, for the high national and international recognition of her research by the peers.

**2020-ACS FELLOW** awarded by the American Chemical Society (the first Romanian to obtain this award, and title from this prestigious society), for pioneering work in stochastic sensors for biomedical analysis

**2023-Prize for the stochastic sensors used for early diagnosis of cancer**, awarded for the best women researcher out of 10 selected by magazine Capital, Romania

**2023-BIZINVENT** award for research work performed for early diagnosis of cancer using stochastic sensors; the prize was awarded by Association for Education Teofor, within the event “Gandit in Romania”, 2<sup>nd</sup> Edition under the name George Emil Palade

**Awards obtained at international inventions salons for the [patents](#):**

2008 – **Gold Medal and Diploma of Excellence** for a patent on stochastic sensors at the 2<sup>nd</sup> **International Congress of the Researchers and Inventors from Romania**, 11-12 December 2008, Bucharest, Romania.

2009 – **Pro Invent Medal and Diploma of Excellence**, and **Diploma of Excellence of the Society of Inventors from Romania**, for a patent on stochastic sensors at the Pro Invent, 24-27 March 2009, Cluj-Napoca, Romania.

2009 – **Gold Medal**, and **Arca Prize of the Society of Inventors from Croatia**, for a patent on stochastic sensors at the 37<sup>eme</sup> **Salon International des Inventions des Techniques et Produit Nouveaux**, 1-5 April 2009, Geneve, Switzerland.

2009 – **Gold Medal**, and the **Prize of the Polish federation of Engineering Association - NOT**, for a patent on stochastic sensors at the **International Warsaw Invention Show, IWIS 2009**, 1-3 June 2009, Warsaw, Poland.

2009 – **Gold Medal**, and **Prize of Technopol Moscow**, for a patent on a stochastic microsensor for early detection of cancer, at **IX Moscow International Salon of Innovations and Investments**, 26-29 August 2009, Moscow, Russian Federation.

2009 – **Silver Plate**, for a patent on a stochastic microsensor for early detection of cancer, at **ARCA**, 15-19 September 2009, **Zagreb, Croatia**.

2009 - **Gold Medal**, and the Prize **EXCELLENCE RECOGNITION AWARD of the Society of Inventors from Croatia**, for a patent on a stochastic microsensor for early detection of cancer, at **INVENTIKA**, 28-31 October 2009, **Bucharest, Romania**.

2009 - **Gold Medal with merit**, and the **Prize of AGEPI**, for a patent on a stochastic microsensor for early detection of cancer, at **EUREKA 2009**, 19-21 November 2009, **Brussels, Belgium**.

2010 - **Gold Medal with special mention and Diploma of excellence**, for a patent on a stochastic microsensor for early detection of cancer, at **PRO INVENT 2010**, 16-19 March 2010, **Cluj-Napoca, Romania**.

2010 - **Gold Medal with the congratulations of the jury, WIPO award for the best woman inventor, and AGEPI medal**, for a patent on a stochastic microsensor for early detection of cancer, at **38<sup>e</sup> Salon International des Inventions de Geneve**, 21-25 April 2010, **Geneve, Switzerland**.

2010 – **2<sup>nd</sup> Prize, Category “Inventions”**, for a patent on a stochastic microsensor for early detection of cancer, at **Bright fair 2010, World Forum of Researchers and Inventors**, 8-10 October 2010, **Bucharest, Romania**.

2010 – **Prize of the Society of Inventors from Romania, and the Medal of the Society of Inventors** for a patent on a stochastic microsensor for early detection of cancer, at **The First Fair of Inventions**, 23-Novemberr 2010, **Jassy, Romania**.

2011 – **Prize of the Technical University of Cluj-Napoca, and Order Leonardo da Vinci** for a patent on enantioselective sensors, at **PRO INVENT 2011**, March 2011, **Cluj-Napoca, Romania**.

2011 – **Gold medal and Prize of the International Society of Inventors**, for a patent on enantioselective sensors, at **39<sup>e</sup> Salon International des Inventions de Geneve**, April 2011, **Geneve, Switzerland**.

2012 – **Gold medal of the Ukraine Society of Inventors** for a patent on enantioselective sensors, at **National Conference on Research and Innovation**, May 2012, **Bucharest, Romania**.

2012 – **Gold medal** for a patent on enantioselective sensors, at **IFIA**, November 2012, **Kuwait**.

2012 – **Gold medal** for a patent on early detection of cancer, at **IFIA**, November 2012, **Kuwait**.

#### **Membership in national and international bodies**

- **Sigma Xi, The Scientific Research Honor Society, Full member**

- **Electrochemical Society/USA – full member, Sensor Division - member of the Executive Committee and Member-at-Large; member of awards sensor division subcommittee**
- **Member of the American-Romanian Academy for Science and Arts**
- **DAC of EUCHEMs – full member, Representative of Romanian Society of Chemistry; Head of Study group on Bioanalysis.**
- **The South African Chemical Institute – full member**
- **American Chemical Society – from 2020 FELLOW, and from 2013 Chair of the Romanian International Chapter of ACS**
- **International Society of Electrochemistry – full member**
- **International Society of Bioelectrochemistry – full member**
- **Romanian Society of Chemistry – full member**
- **The Israeli Metrological Society – full member**
- **IUPAC – FELLOW from 2002.**
- **Secretary, Commission V.1, General Aspects on Analytical Chemistry, IUPAC 1999-2001.**

#### **Role in Scientific Committees:**

- **Scientific Organizing Committee of The XIII<sup>th</sup> National Conference on Analytical Chemistry, Craiova, Romania, 1996.**
- **Scientific Organizing Committee of Chemometrics Workshop, Timisoara, Romania, 1997.**
- **Scientific Organizing Committee of The XIV<sup>th</sup> National Conference on Analytical Chemistry, Piatra Neamt, Romania, 1998.**
- **Co-secretary, 7<sup>th</sup> International Conference on Kinetics in Analytical Chemistry, Bucharest, Romania, 2001.**
- **Co-secretary, ICFIA'2003, Merida, Venezuela, 2003.**
- **Member of the Technical Program Committee of the 10<sup>th</sup> International Meeting on Chemical Sensors, July 11-14, 2004. Tsukuba, Japan.**
- **Chair and member of the Scientific Committee – SENSOR DEVICES 2010, Venetia, Italy, July 2010; SENSOR DEVICE 2011, Nice, France, August 2011; SENSOR DEVICES 2012, Roma, Italy, August 2012; SENSOR DEVICES 2013, Barcelona, Spain; SENSOR DEVICES 2014; SENSOR DEVICES 2015.**
- **Chairman, 1<sup>st</sup> International Conference on Analytical Chemistry, RO-ICAC'2012, 18-21 September, 2012, Targoviste, Romania.**
- **Chairman, 2<sup>nd</sup> International Conference on Analytical Chemistry, RO-ICAC'2014, 17-21 September, 2014, Targoviste, Romania.**
- **Chairman, 3<sup>rd</sup> International Conference on Analytical Chemistry, RO-ICAC'2016, June, 2016, Timisoara, Romania.**

- **Chairman, RO'ICAC 2016, 3<sup>rd</sup> International Conference on Analytical Chemistry, Iasi, Romania, 2016**
- **Chairman, RO'ICAC 2018, 4<sup>th</sup> International Conference on Analytical Chemistry, Bucharest, Romania, 2018**

**In the past five years:**

- **Chairman, RO'ICAC 2024, 5<sup>th</sup> International Conference on Analytical Chemistry, Bucharest, Romania, 2024**
- **Symposium organizer for Sensor Division of the Electrochemical Society, USA, two times a year for the international conferences organized by the society**
- **DAC workshop organizer during Euroanalysis conference, Geneva, Switzerland, August 2023.**

### **Building the team of Laboratory of Electrochemistry and PATLAB**

On the occasion of my employment as Head of Laboratory of Electrochemistry and PATLAB, I was asked to build a strong team of young researchers. At the stage of employment the laboratory comprised two senior researchers (myself and JF van Staden), and two researchers closed to the pension age. JF van Staden and myself applied for projects to re-design the old laboratories, and get the modern instrumentation/equipment, and projects that can sustain salaries (the only source of salaries in our institute is the money coming from research projects) and materials for researchers. We get both types of projects in September 2007, and by the end of the year our laboratories were re-designed, and the acquisition of instrumentation started. I start to employ PhD students from 2008, and by getting funds from projects funded through competitions I was able to employ more MSc, PhD, and postdoc students so that in 2013 the number of active members of the laboratory (almost all under 35 years old) rise to 20 members. Unfortunately, due to delays yearly in salaries at the beginning of each year (delays due to late opening of the financial year, and due to receiving late the money for the projects) we lost valuable members of our laboratory. At the moment, the number of people in my team is 12 to which are added the PhD students, MSc students and occasionally undergraduate students from University of Bucharest and National University of Science and Technology Politehnica of Bucharest. Our team is the best in our institute – through the rate of number of publications per member of the team, through the numbers of papers published in Q1 journals, invitations to conferences, participation to conference (the team was highly rated at the last Euroanalysis conference due to the oral and poster presentations), invitations in editorial boards, international awards obtained at high rated conferences like Euroanalysis, ARA Conference in Los Angeles, and awards for best young analytical chemist “Constantin Luca award” (this

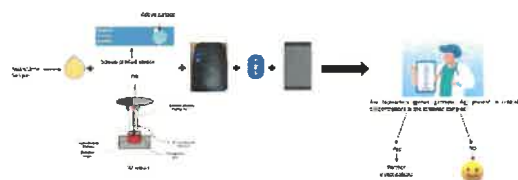
award is judge by an international panel of high rated analytical chemists in the world) of the Romanian International Chapter of ACS. The team was already getting the international recognition for the quality of research. A postdoc member of the team was one of the best 10 women researchers in 2022, accordingly with the magazine Capital. Many members of the team got research projects funded trough the national competitions. While almost all members of the team started as assistant researcher, due to their high level of research performed, one of them became last year senior researcher I, two members became last year senior researcher II, a number of them are senior researcher III, and senior researchers, with only two members (employed in the past 2 years) as assistant researchers.

To date I also supervise 6 BSc students, 9 MSc students, and 24 PhD students (14 were awarded the PhD with the highest qualification Summa cum laude; 10 PhD students are still busy with their PhD in different stages) and I was mentor for 6 postdocs. All members of my team, except JF van Staden were my PhD students or my postdocs or my MSc students.

Supporting the young researchers, investing in their knowledge is the most beautiful thing ever; and the beauty is to see them blooming, having excellent results, having invitations from high rated conferences and journals. I am very proud of my research team which is my second family.

### Description of the most important scientific achievements from the past 5 years

*“No analysis is better than the sample itself.”* (GE Baiulescu) – this is the motto of my research. Performing of analysis without any processing of sample or with the minimum processing steps will reduce the uncertainty of the results, making the analysis more reliable. Developing of stochastic sensors proved to fit perfectly into the motto, as their utilization as screening/analysis tools can be done without any processing of samples. The plus value of the stochastic sensing is given by: sensors’ capacity of performing qualitative analysis (based on the signatures of analytes) and highly reliable quantitative analysis; the response of the stochastic sensors is not dependent on the complexity of the matrix (biological sample, food sample, pharmaceutical sample) used for the screening test. Raluca-Ioana van Staden (b. Stefan), recognized for her pioneering work on the fields of stochastic sensors (WIPO award for the Best Women Inventor), and enantioselective sensors, brought in the past five years the knowledge on sensors’ technology to a higher level. New nanomaterials and nanocomposites were developed and used for new designs of 2D and 3D sensors. The 2D and 3D design was moved from laboratory type closed to the commercial type - this was possible by using the 3D printer from our laboratory. Integration of 2D and 3D sensors into analytical platforms coupled to smartphone facilitated *on-site* fast screening tests of biological samples, pharmaceutical samples as well as of food and beverages. An example of experimental set-up proposed for the 2D/3D stochastic sensors is shown in Scheme 1.



**Scheme 1** Example of experimental set-up for 2D/3D sensors integrated in analytical platforms.

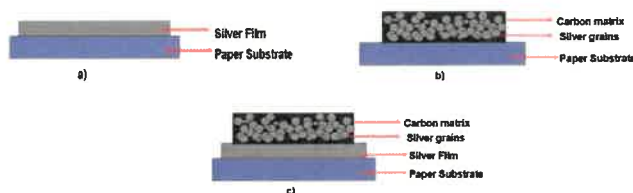
The sensors are coupled to the USB sized device, and the results are transmitted via wireless to the smartphones, thus being able to further send the results to the medical doctors' or customers' devices like phone, notebook, or computer. The cost per analysis is very low, and they can be used for multianalyte determinations in various samples.

The achievements in the sensors' design technologies can be divided in the following directions: **(1) stochastic sensors for biomedical analysis** (1a) development of new stochastic sensors as new tools for screening of biological samples for early diagnosis of diabetes – part of PN-III-P4-ID-PCE-2016-0120 project (which received the Excellent qualification from the evaluators), and **(1b) stochastic sensors as new tools for screening tests used for early diagnosis and differentiation of gastric and colon cancers** – results obtained within the PN-III-P4-ID-PCCF-2016-0006 project which



received the Excellent qualification from the evaluators; (2) stochastic sensors for pharmaceutical analysis, and (3) stochastic sensors for safety/quality of food and beverages.

**(1) Stochastic sensors for biomedical analysis (1a)** New materials and designs were selected for stochastic sensors proposed for analysis of selected biomarkers used in early diagnosis of diabetes. Nanolayer and nanolayer by nanolayer deposition of nanofilms of Ag and C using cold plasma in sequences: Ag, Ag-C, Ag-Ag-C (Scheme 2), on porous paper, was used to design three disposable stochastic sensors for the assay of islet amyloid polypeptide from whole blood [287].



**Scheme 2** Configuration of the disposable stochastic sensors based on: a) silver nanofilm; b) Ag-C composite nanofilm; and c) Ag-C composite nanofilm deposited on a Ag nanofilm.

The nanofilms were modified with  $\alpha$ -cyclodextrin. Wider linear concentration range ( $1.00 \times 10^{-6}$ – $1.00$  ng mL<sup>-1</sup>), and lower limit of quantification ( $1.00 \times 10^{-6}$  ng mL<sup>-1</sup>) were obtained using the disposable stochastic sensors based on Ag-C and Ag-Ag-C, while highest sensitivity ( $3.19 \times 10^4$  s<sup>-1</sup>/μg mL<sup>-1</sup>) was recorded using the disposable stochastic sensor based on Ag-Ag-C. The screening methods were fully validated using whole blood samples from confirmed patients, when the recovery of the islet amyloid polypeptide was higher than 98.00%. High selectivity vs peptide C, adiponectin, dopamine, and zinc ions was obtained. For the analysis of fractalkine [345], a key biomarker for early diagnosis of diabetes, a smartphone-based mobile device was proposed for the fast screening of serum samples in order to detect the prediabetes stage. The smart device is able to send the data to the smartphone of the patient and of the medical doctor using bluetooth. A screen-printed stochastic electrode (the surface of the stochastic screen-printed electrode is based on carbon modified with carboxyl functionalised multi-walled carbon nanotubes) was used as detection tool in the cellular-based mobile device. The sensitivity of the screen-printed stochastic electrode is very high ( $3.58 \times 10^3$  s<sup>-1</sup> g<sup>-1</sup> mL), and the limit of determination very low ( $2.05$  fg mL<sup>-1</sup>). The screening method is able to perform a qualitative analysis as well as a high reliable quantitative analysis of fractalkine in serum samples with a recovery (%) vs ELISA (the standard method) of 99.96 and a relative standard deviation of 3.28%. The cost per analysis is very low. Three stochastic microsensors designed using matrices based on diamond, graphite and graphene decorated with Pt nanoparticles modified with 2,6-bis (E)-2-(thiophen-3-yl)-4-(4,6,8-trimethylazulen-1-yl) pyridine and protoporphyrin IX (PIX) were designed, characterized and validated for the assay of diabetes' predictive biomarkers: C-reactive protein, adiponectin and Zn<sup>2+</sup> [269]. Wider working concentration ranges were obtained with low

limits of determination-for C-reactive protein:  $8.20 \times 10^{-8} \text{ mg mL}^{-1}$ , for adiponectin  $2.50 \times 10^{-8} \mu\text{g mL}^{-1}$ , and for  $\text{Zn}^{2+}$   $1.36 \times 10^{-10} \mu\text{g mL}^{-1}$ . The sensitivities of all tested stochastic microsensors were very high. High accuracy and precision were recorded when used for their simultaneous assay in biological samples. Enantioanalysis of glucose [271] performed in whole blood and urine using enantioselective stochastic sensors will facilitate the clinical research needed to establish the role of the ratio between L- and D-glucose in diabetic and nondiabetic patients; two stochastic sensors based on the nanographene (nanoGR) paste and on the paste of exfoliated graphene (exfGR) modified with 2, 2-diphenyl-1-picrylhydrazyl (DPPH) were designed and used for the molecular enantio recognition of D- and L-glucose in urine and whole blood samples. The recoveries values (higher than 99.00%), and the low relative standard deviation values (less than 0.10%) proved that the proposed stochastic sensors can be reliable used for the molecular enantio recognition of D- and L-glucose in biological fluids such as whole blood and urine.

**(1b)** Needle stochastic sensors were developed and used for biomedical analysis [290, 299, 307]. Sulphur doped graphenes were synthesized, characterized and used for the design of three 3D-needle stochastic sensors [307]. p53 and carcinoembryonic antigen were used as model analytes for the screening tests of whole blood, urine, saliva, and tissues. Low limits of determination (of magnitude orders  $0.1\text{--}100 \text{ pg mL}^{-1}$ ) and high sensitivities (of magnitude orders up to  $10^7$ ) were achieved. Recovery tests shown that the biomarkers can be recovered with recoveries higher than 96.00%, and relative standard deviations lower than 1.00% from the whole blood, urine, saliva, and tissues. Four biomarkers used in bladder cancer diagnosis: p53, E-cadherin, bladder tumor antigen (BTA) and hyaluronic acid were taken into consideration for the screening tests using stochastic needle sensors [290]. Three stochastic needle sensors, based on graphite powder, modified with three types of chitosan were designed and characterized for the screening test. The proposed sensors showed low limits of quantification, and high sensitivity and selectivity levels. The recoveries of p53, E-cadherin, BTA and hyaluronic acid in whole blood samples and tumoral tissue samples were higher than 95.00% with relative standard deviation lower than 1.00%. Human epidermal growth factor receptors' (HER) family together with heregulin- $\alpha$  place an important role in diagnosis of cancer. Therefore, stochastic sensors were developed for heregulin- $\alpha$  [310]. Four 3D stochastic microsensors based on single-walled carbon nanotubes decorated with gold nanoparticles and modified with inulins were designed and used for the simultaneous molecular recognition and quantification of heregulin- $\alpha$  and HER family (HER1–4) in tumor brain tissue and whole blood samples [362]. The proposed microsensors presented limits of determination of  $\text{fg mL}^{-1}$  magnitude order (heregulin- $\alpha$   $4.1 \text{ fg mL}^{-1}$ , HER1 and HER2  $3.9 \text{ fg mL}^{-1}$ , HER3 and HER4  $1.0 \text{ fg mL}^{-1}$ ) and wide linear concentration ranges, when used for screening of tissue samples and whole blood. DNA damage in cancer was assessed using stochastic sensors and microsensors with different designs [296, 369, 377], by determination of 8-nitroguanine

and 8-hydroxy-2'-deoxyguanosine [296] in whole blood and urine using three different oleamides, respectively N-(2-piperidin-1-ylethyl) oleamide, N-(3,4-dihydroxyphenethyl) oleamide and N-(2-morpholinoethyl) oleamide; and of mismatch repair proteins and KRAS using stochastic microsensors and platforms [369, 377]. Two miniplatforms based on stochastic microsensors designed using Nitrogen (9.3%) and Boron (2.4%) - doped graphene (NB-DG) modified with frutafit HD and frutafit TEX were designed and validated for the assay of MLH1, MSH2, MSH6, PMS2, and of KRAS in whole blood, urine, saliva, and tumoral tissues [369]. Limits of determination of fg/mL magnitude order were recorded. The % recoveries of MLH1, MSH2, MSH6, PMS2, and of KRAS in whole blood, urine, saliva, and tumoral tissues were higher than 99.00 with RSD (%) values lower than 0.08%. The results obtained for DNA damage in cancer and for maspin analysis using 2D stochastic sensors [328], favored differentiation of types of colon and gastric cancer by non-invasive analysis of urine and saliva [365, 372, 385, 388]. Enantioanalysis of amino acids such as glutamine [285], tryptophan [279] and arginine [339] proved to be a key factor in establishing the metabolomics in gastric cancer; stochastic sensors based on protoporphyrin IX,  $\beta$ -cyclodextrin, and 2,2-diphenyl-1-picrylhydrazyl [285, 279], and also 3D needle enantioselective stochastic sensors based on N,S-decorated graphenes modified with 2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphine manganese(III) chloride [339] proved that the D-enantiomer is found only in the confirmed patients with gastric cancer.

**(2) Stochastic sensors for pharmaceutical analysis;** A multimode sensor (a sensor responding simultaneously to more than one mode, e.g., stochastic mode, amperometric mode, voltametric mode) based on graphite paste modified with N-methylfulleropyrrolidine was proposed for the determination of butoconazole nitrate in its pharmaceutical formulation [351]. Both stochastic mode and square wave voltammetry mode were applied for qualitative and quantitative assay of butoconazole nitrate in the pharmaceutical topical ointments. A stochastic platform based on calix[6]arene and TiO<sub>2</sub>-modified reduced graphene oxide electrode was proposed for on-site determination of nonivamide in topical pharmaceutical formulations [370].

**(3) Stochastic sensors for safety/quality of food and beverages** Quality of food it is very important for the state of health of population. A smart portable device based on disposable stochastic sensor design by impregnation of a nanolayer C-Ag coated paper with a porphyrin was used for simultaneous assay of bisphenols A,C,E,F,S, and Z in food samples, at pmol L<sup>-1</sup> concentration level with recoveries higher than 99.00% [361]. Two diamond paste sensors were used for determination of aflatoxin M in milk from 0.001fg L<sup>-1</sup> to 20 $\mu$ g L<sup>-1</sup> and recoveries higher than 99.00% [266]. On-site screening platforms based on utilization of stochastic sensors were proposed for the assay of atrazine in lemon juice, apple juice and tomato juice at pmol L<sup>-1</sup> level [383]. The proposed sensors are cost-effective, and are part of portable instrumentation being able to be used for *on-site* screening of food.

Prof Dr habil, CSI Raluca-Ioana van Staden (born Stefan)

**Editorial activities:**

**Guest editor for:**

1. Analytical Letters – Special issue dedicated to the memory of Professor George Emil Baiulescu, Analytical Letters 43 (7-8), 2010
2. Sensors/MDPI – Special issue: Electrochemical Sensors for Food, Pharmaceutical and Biomedical Analysis, 2020-2023
3. Journal of Oncology – Special issue: From Molecular Genetics to Diagnosis and Therapy of Gastric Cancer, 2020-2021
4. Life, MDPI – Special issue on Serum and Tissue Biomarkers in Cancer: A Translational Approach, 2021-2023
5. Journal of the Electrochemical Society, Special issue on Women in Electrochemistry, 2021

**Topic Editor:**

1. Frontiers in Oncology – Advanced Molecular Targets in the Diagnosis and Treatment of Gastrointestinal Cancers
2. Frontiers in Sensors – Electrochemical (Bio)sensors for early diagnosis of cancer
3. Frontiers in Genetics - Prognosis and Diagnosis of Hepatocellular Carcinoma

**Review Editor** Frontiers in Bioengineering and Biotechnology - for Biosensors and Biomolecular Electronics.

**Academic editor:** Journal of Oncology: 2022-2023

**Member of Editorial boards:**

Analytical Letters, Taylor and Francis

Sensors, MDPI

Egyptian Pharmaceutical Journal, Wolter Kluwer Health/MedKnow

ECS Sensors Plus

Prof Dr habil Raluca-loana van Staden received regularly invitations as invited professor and researcher from universities, e.g., University Tor Vergata, Rome Italy; University Yamagata, Yamagata, Japan; University Antwerpen, Antwerpen, Belgium; **University of Vienna**, Vienna, Austria; **University of the Witwatersrand**, Johannesburg, South Africa, **University of Istanbul**, Istanbul, Turkiye; **University of California Berkeley**, USA; **Friedrich-Schiller- University of Jena**, **Leibniz Institute of Photonic Technology**, University of Ankara, Turkiye.

Attached to this document, for the past 5 years period of time, please, find attached the invitation of Professor Mehmet Mahramanlioglu from **University of Istanbul** to present a short course and organize a session during the EUROANALYSIS 2019, a conference organized at University of Istanbul.

Unfortunately, due to travel restrictions during pandemics, extended until 2021, and even in 2022, I could not travel as invited professor or researcher, although there were invitations.

Recently, I received invitations from University of Ankara, Turkiye, and **Friedrich-Schiller- University of Jena**, **Leibniz Institute of Photonic Technology** to be guest professor and researcher (see the invitations attached).



September 1-5, 2019  
Istanbul University, İstanbul / TURKEY

October 3<sup>th</sup>, 2018

Dear Dr. Raluca I.S. van Staden

On behalf of the organizing committee, it is my great pleasure to invite you to give a **short course** on the EuroAnalysis XX Conference to be held from September 1<sup>st</sup> to 5<sup>th</sup>, 2019 in our beautiful city of Istanbul, Turkey.

The meeting will be hosted by Turkish Chemical Society in collaboration with the Division of Analytical Chemistry of EuChemMS and the local organizers Ankara University and Istanbul University.

The scientific program will include plenary and keynote lectures given by – distinguished experts in the field, as well as oral and poster presentations and vendor seminars. Participation of young researchers, both from industry and academia, will be strongly supported by a dedicated young scientist session, best oral presentation and poster awards as well as a reduced registration fee and affordable lodging.

As can be seen from the conference webpage (<http://euroanalysis2019.com/>), the conference will be on various topics of analytical chemistry. The social program of the conference will be designed in the way to maximally facilitate scientific and cultural exchange between the conference participants representing various ages and cultural groups. All conference participants and registered accompanying persons are kindly invited to all conference related scientific and social events (sessions, receptions, lunches, and dinners).

We are pleased to offer you free conference registration, and participation in all social events of the symposium, as well as free accommodation. Unfortunately, we cannot cover the flight expenses.

The short course topic is up to you, that will be conducted before Euroanalysis XX, 31<sup>th</sup> August or 1<sup>st</sup> of September. The workshop can be half day or full day, up to your programme. If you want, you can invite a colleague to organize with you. We are pleased to offer he/she free conference registration, and participation in all social events of the symposium, as well as free accommodation. Unfortunately, we cannot cover the flight expenses.

I hope that above mentioned conditions are acceptable for you and look forward to welcoming you in Istanbul, Turkey

On behalf of the Scientific and Organizing Committees,

Sibel A. Ozkan and Mehmet Mahramanlioglu  
Chairs of the Symposium

Ankara University, Faculty of Pharmacy  
Department of Analytical Chemistry  
Ankara, Turkey

Istanbul University, Faculty of Engineering  
Department of Chemistry  
Beyazıt/Fatih-İstanbul





**ANKARA UNIVERSITY FACULTY OF PHARMACY  
DEPARTMENT OF ANALYTICAL CHEMISTRY**

**Ankara  
November 30<sup>th</sup>, 2023**

**INVITATION LETTER**

Dear Dr. Prof Dr., Raluca-Ioana van Staden,

I would like to invite you to my lab as a Visiting Professor and Researcher to work in my research laboratory and share the knowledge at the Department of Analytical Chemistry, Faculty of Pharmacy, Ankara University, Turkiye.

This acceptance to visit Ankara University is contingent upon verification of academic credentials and your agreement to abide by the policies and regulations of the University. I look forward to your association with our department.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Sibel A. OZKAN'.

**Prof. Dr. Sibel A. OZKAN**

ANKARA UNIVERSITY FACULTY OF  
PHARMACY DEPARTMENT OF ANALYTICAL  
CHEMISTRY, Ankara-TURKIYE

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**Prof. Dr. habil. Raluca-Ioana van Staden**  
**Head of Laboratory of Electrochemistry and PATLAB**  
**Bucharest**  
**National Institute of Research for Electrochemistry**  
**and Condensed Matter**  
**202, Splaiul Independentei Str.**  
**060021, Bucharest-6, Romania**

ANSPRECHPARTNER CONTACT

UNSER ZEICHEN OUR REFERENCE

IHR ZEICHEN YOUR REFERENCE

DATUM DATE

12 December 23

Dear Prof. Staden,

I hope this message finds you well. It is with great pleasure that I invite you, as an esteemed professor and researcher, to join our university for collaborative initiatives in the field of biomedical analysis. Your recognized expertise in stochastic sensors for biomedical analysis makes you an ideal candidate for this endeavour.

During your visit, we aim to foster a meaningful partnership and explore opportunities for joint research activities and collaborations. In addition, we are pleased to inform you that we have already signed an agreement for upcoming European Union research projects and we believe that your involvement will contribute significantly to the success of these initiatives.

The purpose of your visit is not only to share knowledge, but also to strengthen our collaboration and discuss potential areas of mutual interest. We are confident that your unique insights and contributions will enhance our research capabilities and contribute to the advancement of the biomedical field.

I sincerely hope that you will accept this invitation to visit our University and embark on a journey of fruitful collaboration. Your presence and expertise will undoubtedly enrich our academic environment and contribute to the success of our joint endeavours.

Please do not hesitate to contact me to further discuss the details of your visit and collaboration. We eagerly await the opportunity to work closely with you and look forward to the positive impact our collaboration will have on the field of biomedical analysis.

Thank you for your consideration of this invitation and I look forward to a positive response.

Yours Sincerely,



**Dr. Anuradha Ramoji**  
**Research Associate**

Prof. Dr. Jürgen Popp WISSENSCHAFTLICHER VORSTAND (VORSITZENDER) ALTERNATIVES GEBÜCKTES BÜCKENMANN  
Frank Sondermann KAUFMÄNNISCHER VORSTAND NUMERISCHER VORSTAND

UST-IDENT. VAT NO: DE 151 282 932 STEUER-NR. TAX NUMBER: 162/141/08236 AMTSGERICHT JENA SECRETARY COURT JENA VR 230299  
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Leibniz  
Gemeinschaft

jenaphotonics



## Invited Lectures

1. *Estimation of uncertainties in clinical analysis*  
**R.I. Stefan**, G.E. Baiulescu, H.Y. Aboul-Enein, J.F. van Staden  
The Twelfth International Conference of the Israel Society for Quality,  
Jerusalem, Israel, 1-3 December 1998. (Keynote lecture)
2. *The influence of matrix additives on ion-selective membrane electrodes response*  
**R.I. Stefan**, J.F. van Staden, H.Y. Aboul-Enein, G.E. Baiulescu  
Pittcon 2000, New Orleans, LA, USA, 12-17 March 2000. (Keynote lecture)
3. *Enantioselective sensors in pharmaceutical analysis*  
**R.I. Stefan**  
First International Conference on Analytical Chemistry - SCAR 2000, Brasov,  
Romania (Opening plenary lecture) 21-23 September 2000.
4. *Electrochemical sensors and kinetics in analytical chemistry*  
**R.I. Stefan**, J.F. van Staden  
KAC'2001, 7<sup>th</sup> International Symposium on Kinetics in Analytical Chemistry,  
Bucharest, Romania. 21-23 September 2001. (Keynote lecture)
5. *New horizons in sequential injection kinetic analysis*  
**J.F. van Staden**, R.I. Stefan  
KAC'2001. 7<sup>th</sup> International Symposium on Kinetics in Analytical Chemistry.  
Bucharest. Romania. 26 - 29 September 2001. (Plenary lecture)
6. *Chiral recognition using potentiometric, enantioselective membrane electrodes*  
**R.I. Stefan**  
IMCS'2002. 9<sup>th</sup> International Meeting on Chemical Sensors. Boston, USA. 7-10  
July 2002 (Plenary lecture)
7. *Fullerenes and their derivatives as new chiral selectors for the design of electrochemical sensors.*  
**R.I. Stefan**  
Euroanalysis XII. Division of Analytical Chemistry of the Federation of  
European Chemical Societies and Gesellschaft Deutscher Chemiker.  
Dortmund. Germany. 8 - 13 September 2002. (Keynote lecture)
8. *Multicomponent analysis using electrochemical sensors in flow systems.*  
**R.I. Stefan**, J.F. van Staden  
ICFIA'2003. 12<sup>th</sup> International Conference on Flow Injection Analysis,  
including related techniques. Merida. Venezuela. 7 - 13 December 2003.  
(Plenary lecture)
9. *Chemical speciation by sequential injection analysis (SIA) with spectrophotometric detection*  
**J.F. van Staden** and R.I. Stefan  
ICFIA'2003. 12<sup>th</sup> International Conference on Flow Injection Analysis,  
including related techniques. Merida. Venezuela. 7 - 13 December 2003.  
(Plenary lecture)

10. Process analytical technology (PAT) as an environmental tool. Does it fulfill the expectations?  
**J.F. van Staden, R.I. Stefan-van Staden**  
3<sup>rd</sup> Black Basin Conference on Analytical Chemistry, 12<sup>th</sup>-14<sup>th</sup> of September 2005, Constantza, Romania
11. Stochastic Microsensors for Molecular Diagnosis  
**R.I. Stefan-van Staden**  
13 IMCS'2010. 13<sup>th</sup> International Meeting on Chemical Sensors. Perth, Australia. 11-14 July 2010 (Keynote lecture)
12. Early detection of cancer - a chance for life  
**R.I. Stefan-van Staden**  
Chronic Diseases. Bucharest, Romania. 22-23 September 2010 (Plenary lecture)
13. Multimode sensors for pharmaceutical analysis  
**R.I. Stefan-van Staden**  
1st World Drug Discovery online Conference, Huston, TX, USA, October 20-22, 2011 (Keynote lecture)
14. New electrochemical sensors for biomedical investigations  
**R.I. Stefan-van Staden**  
220<sup>th</sup> ECS Meeting & Electrochemical Energy Summit, Boston, MA, USA, October 9-14, 2011 (Keynote lecture)
15. Stochastic dot microsensors for the assay of dopamine in pharmaceutical samples and biological fluids  
**R.I. Stefan-van Staden**  
2nd World Drug Discovery online Conference, Huston, TX, USA, October 16-18, 2012 (Keynote lecture)
16. New trends in food analysis  
**R.I. Stefan-van Staden**  
Challenges in Food Analysis, International Workshop, Constantza, Romania, May 31 – June 1, 2013 (plenary lecture)
17. Stochastic microsensors based on nanostructured materials used in the screening of whole blood for Hepatitis B  
**R.I. Stefan-van Staden, Iuliana Moldoveanu**  
224<sup>th</sup> ECS Meeting & Electrochemical Energy Summit, San Francisco, CA, USA, October 26-November 1, 2013 (Keynote lecture)
18. Stochastic and multimode sensors based on porphyrins. New trends and applications in biomedical analysis.  
**R.I. Stefan-van Staden**  
8<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-8), Istanbul, Turkey, June 22-27, 2014 (Keynote lecture)

19. Stochastic sensors - new tools for screening in biomedical analysis  
**R.I. Stefan-van Staden**  
The 3<sup>rd</sup> International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, "IC-ANMBES 2014", Brasov, Romania, June 13-15, 2014 (Plenary lecture)
20. Novel stochastic sensor for simultaneous assay of neurotransmitters  
**R.I. Stefan-van Staden**, I. Moldoveanu, J.F. van Staden  
French-Romanian Meeting-FRM, Brasov, Romania, June 15, 2014 (Invited lecture)
21. Utilization of macromolecular compounds for the molecular recognition of substances of clinical interest  
**R.I. Stefan-van Staden**  
A XXV-a sesiune de comunicări științifice PROGRESE ÎN ȘTIINȚA COMPUSILOR ORGANICI SI MACROMOLECULARI, Iasi, Romania, September 24-26, 2015 (Keynote lecture)
22. New Stochastic Sensors Based on Nanostructured Materials for Fast Screening of Biological Fluids for Cancer Biomarkers  
**R.I. Stefan-van Staden**  
3rd International Conference on Smart Systems Engineering 2015 (SmaSys 2015), Yonezawa, Japan, October 8-9, 2015 (Keynote lecture)
23. A new approach in biomedical analysis  
**R.I. van Staden.**  
International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2016", Brasov, Romania, 29 June- 1 July 2016 (Key note presentation)
24. Point-of-care screening tools for cancer  
**RI van Staden**  
229th ECS MEETING, May 29-June 2, 2016, San Diego, CA, USA (invited lecture)
25. Stochastic sensors as screening tools for biomedical analysis  
**RI Stefan-van Staden**  
ETCMOS 2017, Warsaw, Poland, May 28-30, 2017 (Keynote lecture)
26. Molecular Diagnosis – a Chance for Life  
**Raluca-Ioana Stefan-van Staden**  
41<sup>st</sup> ARA Congres, August 1-5, 2017, Sinaia, Romania (Keynote lecture)
27. SCREENING-UL LA NIVEL MOLECULAR – O SANSA LA VIATA!  
**RI Stefan-van Staden**  
Zilele Academice Iesene, Iasi, Romania, 5-6 Octombrie 2017, (Opening Plenary Lecture)
28. STOC $\mu$ SENS-MD – A TEST FOR LIFE  
**RI Stefan-van Staden**  
10<sup>th</sup> Synevo Clinica Research Symposium, Bucharest, Romania November 9, 2018 (Plenary lecture)

### Invited lectures in the past 5 years

29. Supramolecular Assemblies Recognized Gastric Cancer Biomarkers in Biological Fluids  
**RI Stefan-van Staden**  
235th Meeting of ECS, Dallas, USA, May-June 2019 (Invited lecture)
30. Stochastic sensors as screening tools for fast and early detection of illnesses  
**RI Stefan-van Staden**  
235th Meeting of ECS, Dallas, USA, May-June 2019 (keynote lecture)
31. New Trends in Molecular Recognition of Substances of Biological Importance  
**RI Stefan-van Staden**  
EUROANALYSIS, Istanbul, Turkey, September, 2019 (Invited lecture)
32. New Trends in Molecular Recognition of Substances of Biological Importance  
**RI Stefan-van Staden**  
43rd ARA Congress, Los Angeles, USA, November 15-17, 2019 (plenary lecture)
33. Noi metode si biomarkeri pentru diagnosticarea precoce a cancerului gastric  
**RI Stefan-van Staden**  
Institutul Petru Poni, Iasi, 11 noiembrie 2019, Conferinta invitata.
34. Fast screening tests for early detection of gastric cancer  
**RI Stefan-van Staden, RM Ilie-Mihai, DC Gheorghe**  
ECS Meeting Prime 2020, Honolulu, 4-9 October 2020 (invited lecture)
35. Quality and Reliability in Analytical Chemistry  
**Raluca-Ioana Stefan-van Staden**  
Virtual EURACHEM Workshop, Bucharest, July 14-15, 2020 (plenary lecture)
36. Fast Screening Tests for Early Diagnosis of Gastric Cancer, Based on Molecular Recognition and Assay of Maspin in Biological Samples  
**Raluca-Ioana Stefan-van Staden, Ruxandra Maria Ilie-Mihai, Damaris Cristina Gheorghe, Iuliana Mihaela Bogea**  
240th ECS Meeting, Volume MA2021-02, M02: Biosensors and Nanoscale Measurements: A Symposium in Honor of Professors Nongjian Tao and Stuart Lindsay, 10-14 October, 2021, Orlando, FL, USA (digital event) (invited lecture)
37. New challenges in early diagnosis of gastric cancer  
**RI Stefan-van Staden, DC Gheorghe, AA Bratei, RM Ilie-Mihai**  
241st ECS Meeting, May 29 – June 2, 2022, Vancouver, BC, Canada (keynote lecture)
38. Innovative methods for food analysis  
**RI Stefan-van Staden**  
5th International Conference Food Science & Nutrition, Dubai, 4-5 September 2023

#### Patents awarded:

1. Procedure for construction of stochastic sensors based on porphyrines and diamond or graphite for the assay of ascorbic acid at molecular level  
Raluca-Ioana van Staden, Eugenia Lenuta Fagadar-Cosma  
**OSIM** Nr 123101/Octombrie 2010.
2. STOC- $\mu$ SENS-CMD  
Raluca-Ioana van Staden, Jacobus Frederick van Staden  
**OSIM** Nr 125050/Decembrie 2010.
3. Screening method and system for biomedical analysis and procedure of its construction  
Raluca-Ioana van Staden, Jacobus Frederick van Staden  
**OSIM** Nr 126898/December 2011, and **WIPO/PCT** nr WO2012/108780A1
4. DOT sensor enantioselective and procedure for its construction  
Raluca-Ioana van Staden, Jacobus Frederick van Staden  
**OSIM** Nr 126158/Iulie 2016.
5. Disposable multimode minicell  
Raluca-Ioana van Staden, Jacobus Frederick van Staden  
**OSIM** Nr. RO131898B1/2021.

**Research Projects awarded to Raluca-Ioana van Staden (Born Stefan) as project director/manager:**

1. *"Electrochemical sensors for bioanalysis"*, grant awarded by **National Research Foundation from South Africa, 2001-2006, 200,000Euro**. – more than 130 papers published
2. **PNII, Partnership**, *"Sensors and microsensors based on porphyrins for the assay of pharmaceutical compounds, of the compounds of clinical relevance and of food"*, CNMP, **October 2007 – September 2010, 2,000,000lei/400,000Euro** – more than 14 papers published and two awarded patents; the patents were awarded with gold medals and special prizes in international fairs of invention and innovation, from which the highest prize was the one obtained at the international fair in Geneva, 2010: **Gold Medal with the congratulations of the jury, WIPO award for the best woman inventor, and AGEPI medal**
3. **PN-II-ID-PCE-2011-3-0570**, *"Stochastic microsensors as new tools for the assay of substances of biological importance"*, UEFISCDI, **October 2011 – September 2014, 1,500,000lei/300,000Euro** - more than 27 papers published
4. **PNIII, PED, January 2017-July 2018** *"Fast diagnosis of leukemia using stochastic sensors"*, **300,000lei/60,000Euro** – more than 5 papers published
5. **ERC-like project**, *"Stochastic approach for early diagnosis of cancer"*, UEFISCDI, July 2012 – June 2014, **1,500,000lei/300,000Euro** – more than 25 papers.
6. Project responsible, **FP7, DENAMIC**, 2011-2015, *"Developmental neurotoxicity assessment of mixtures in children"*, CE, **70000Euro**. Responsible with development of tools based on stochastic sensing for the assay of 7 (and more) neurotransmitters and biomarkers – 10 papers published.
7. **Bilateral Romania-Cyprus**, *"Enantioanalysis of compounds of clinical importance using microsensors and micellar electrokinetic chromatography"*, **May 2010-April 2012, 40000lei/8,000Euro** – 4 papers published
8. **Bilateral Romania-Republica Moldova**, *"Detection and inhibition of cancer at the molecular level"*, **September 2010-November 2012, ANCS, 32,600lei/6,520Euro**. – 2 papers published
9. **Bilateral Romania-Cyprus**, *"Early detection of thyroid cancer using stochastic sensing and capillary zone electrophoresis"*, 2014-2015, ANCS, **6,000lei/1,200Euro** – 4 papers published
10. **PN-II-PT-PCCA-2013-4-1097**, *"Multimode sensors for screening tests for colorectal cancer, and for personalized treatment"*, **2014-2016, UEFISCDI: 1,000,000lei/200,000Euro** – 25 papers published

**For the past 5 years (Since 2019 to date):**

11. **PN-III-P4-ID-PCE-2016-0120, 2017-2019** Early detection of diabetes using stochastic sensors, **850,000lei/170,000Euro** – 20 papers published.
12. **PN-III-P4-ID-PCCF-2016-0006, 2018-2022**, Graphene-based stochastic sensors for molecular diagnosis of upper gastro-intestinal cancer, **8,500,000lei/1,700,000Euro** – 75 papers published to date and 1 patent.
13. **Nucleus project, PN 23 27 03 01:** Electrochemical, enantioselective, inovative platforms for fast and early diagnostic of cancer, **2023-2026, 7.067.887lei/1,413,578Euro**, to date 5 papers accepted in ISI journals, and 10 papers submitted for publication.

**All projects were evaluated with the degree: Excellent at the end of the project.**

**Raluca-Ioana (b. Stefan) van Staden**

**Published papers/books/chapters in books**

**A total number of 112 papers were published in journals found in Q1 zone; from these, 25 papers were published in the past 5 years in journals found in Q1 zone.**

**A value of the indicator:  $\sum_1^{394} \frac{AIS}{n_i} = 131.152965$  was obtained for the papers published since the beginning of the research career.**

**For the past 5 years, the value calculated for this indicator was:  $\sum_{261}^{394} \frac{AIS}{n_i} = 37.9101$ .**

**134 papers and 4 chapters in books were published in the past 5 years.**

**The most relevant papers published in the past 5 years are:**

**In the field of biomedical analysis:**

- The papers related to early diagnosis of diabetes: nr. 269, 271, 287, 345 (see the Table below)
- The papers related to early diagnosis of cancer based on utilisation of stochastic sensors as screening tools: nr. 279, 285, 290, 296, 299, 307, 310, 328, 349, 353, 369, 377, 379 (see the Table below)

**In the field of pharmaceutical analysis: nr. 351, 364, 370 (see the Table below)**

**In the field of food analysis: nr. 266, 275, 277, 342, 361, 383 (see the Table below)**

Papers published in journals				
Nr.	Journal	Title of the paper	Authors	$\frac{AIS}{n_i}$
1	Rev. Roum. Chim., 36(4-7), 727-740, 1991.	Carbonic anhydrase inhibitors. Novel coordination compounds of Pd(II), Pt(II) and Ni(II) with 6-ethoxy-benzothiazole-2-sulfonamide	M. Andruh, E. Cristurean, R. Stefan and C.T. Supuran	-
2	Rev. Roum. Chim., 36(9-10), 1175-1190, 1991.	Carbonic anhydrase inhibitors. Complexes of ethoxzolamide with lanthanides are powerful inhibitors of isozymes I and II	C.T. Supuran, R. Stefan, Gh. Manole, I. Puscas and M. Andruh	-
3	Anal. Lett., 26(10), 2095-2105, 1993. <a href="https://doi.org/10.1080/00032719308017454">https://doi.org/10.1080/00032719308017454</a>	Penbutolol selective membrane sensor	M.S. Ionescu, R.I. Stefan, G.E. Baiulescu, A.A. Bunaciu, V.V. Cosofret and H.Y. Aboul-Enein	0.0858



4	Anal. Lett., 27(9), 1647-1658, 1994. <a href="https://doi.org/10.1080/00032719408007424">https://doi.org/10.1080/00032719408007424</a>	Mianserin ion-selective membrane electrode and its pharmaceutical applications	A.A. Bunaciu, M.S. Ionescu, R.I. Stefan, I.Ioan and H.Y. Aboul-Enein	0.103
5	Rev. Chim. (Bucharest), 45(10), 837-843, 1994.	Imipramine-selective membrane electrode. Its utilization to imipramine tablets control.	R.I. Stefan, G.E. Baiulescu, M.S. Ionescu, I. Enachescu, A.A. Bunaciu and V.V. Cosofret	-
6	Anal. Lett., 28(5), 835-843, 1995. <a href="https://doi.org/10.1080/00032719508001428">https://doi.org/10.1080/00032719508001428</a>	Solvent extraction of amino acids with crown ethers and Cryptand 222	L. Mutihac, D.O. Popescu and R.I. Stefan	0.1716
7	Anal. Lett., 28(6), 991-1004, 1995. <a href="https://doi.org/10.1080/00032719508002674">https://doi.org/10.1080/00032719508002674</a>	Mexiletine selective membrane electrode and its pharmaceutical applications	R.I. Stefan and M.S. Ionescu	0.2575
8	Anal. Lett., 29(1), 35-42, 1996. <a href="https://doi.org/10.1080/00032719608000390">https://doi.org/10.1080/00032719608000390</a>	Metomidate-sensing electrode and its pharmaceutical applications	R.I. Stefan and H.Y. Aboul-Enein	0.2575
9 Q1	Talanta, 43(7), 1171-1175, 1996. <a href="https://doi.org/10.1016/0039-9140(96)01866-8">https://doi.org/10.1016/0039-9140(96)01866-8</a>	Moclobemide selective membrane electrode and its pharmaceutical applications	R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein	0.569
10	Anal. Lett., 29(13), 2333-2346, 1996. <a href="https://doi.org/10.1080/00032719608002255">https://doi.org/10.1080/00032719608002255</a>	Disopyramide-selective membrane electrode	R.I. Stefan and H.Y. Aboul-Enein	0.2575
11 Q1	Sens. Actuators B, 37(3), 141-144, 1996. <a href="https://doi.org/10.1016/S0925-4005(97)80129-3">https://doi.org/10.1016/S0925-4005(97)80129-3</a>	Amiodarone-selective membrane electrode	R.I. Stefan, H.Y. Aboul-Enein and G.E. Baiulescu	0.7076

12	Analisis, 25(2), 39-42, 1997.	Flecainide-selective membrane electrodes	R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein	-
13	Instrum. Sci. & Technol., 25(2), 169-173, 1997. <a href="https://doi.org/10.1080/10739149709351458">https://doi.org/10.1080/10739149709351458</a>	Ion-selective membrane electrodes: membrane configuration	R.I. Stefan and H.Y. Aboul-Enein	0.2565
14	Pharmazie, 52(10), 780-783, 1997.	Tamoxifen-selective membrane electrodes	R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein	0.170
15 Q1	Anal. Chim. Acta, 350(1-2), 105-108, 1997. <a href="https://doi.org/10.1016/S0003-2670(97)00313-9">https://doi.org/10.1016/S0003-2670(97)00313-9</a>	Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide	R.I. Stefan	2.011
16 Q1	Crit. Rev. Anal. Chem., 27(4), 307-321, 1997. <a href="https://doi.org/10.1080/10408349708050589">https://doi.org/10.1080/10408349708050589</a>	Ion-selective membrane electrodes in pharmaceutical analysis	R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein	0.544
17	J. Anal.Chem., 53(6), 551-553, 1998.	Taxol-selective membrane electrodes	R.I. Stefan and H.Y. Aboul-Enein	0.1485
18	Accred. Qual. Assur., 3, 194-196, 1998. <a href="https://doi.org/10.1007/s007690050221">https://doi.org/10.1007/s007690050221</a>	Validation criteria for developing ion-selective membrane electrodes for analysis of pharmaceuticals	R.I. Stefan and H.Y. Aboul-Enein	0.142
19	Anal. Lett., 31(11), 1787-1794, 1998. <a href="https://doi.org/10.1080/00032719808005262">https://doi.org/10.1080/00032719808005262</a>	A new construction for a potentiometric, enantioselective membrane electrode and use for L-proline assay	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.1716
20	Crit. Rev. Anal. Chem., 28(3), 259-266, 1998.	Enantioselective sensors and biosensors in the analysis of chiral drugs	H.Y. Aboul-Enein and R.I. Stefan	0.816

Q1	<a href="https://doi.org/10.1080/10408349891194199">https://doi.org/10.1080/10408349891194199</a>			
21	Current Trends Anal. Chem., 1(1), 135-138, 1998.	The opportunity to use amperometric biosensors for enantioselective analysis of angiotensin converting enzyme inhibitors	R.I. Stefan, G.L. Radu, H.Y. Aboul-Enein and G.E. Baiulescu	-
22	Prep. Biochem. & Biotechnol., 28(4), 305-312, 1998.  <a href="https://doi.org/10.1080/10826069808010143">https://doi.org/10.1080/10826069808010143</a>	Biosensors for the enantioselective analysis of S-enalapril and S-ramipril	R.I. Stefan, H.Y. Aboul-Enein and G.L. Radu	0.214
23	Instrum. Sci. & Technol., 27(2), 105-110, 1999.  <a href="https://doi.org/10.1080/10739149908085836">https://doi.org/10.1080/10739149908085836</a>	Ion-selective membrane electrodes based on ion-pair complexes: correlation between slopes and stability of ion-pair complexes	R.I. Stefan and H.Y. Aboul-Enein	0.2565
Q1	Talanta, 48(5), 1139-1143, 1999.  <a href="https://doi.org/10.1016/S0039-9140(98)00335-X">https://doi.org/10.1016/S0039-9140(98)00335-X</a>	A new construction for a potentiometric, enantioselective membrane electrode. Its utilization to the S-captopril assay.	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.569
25	Analisis, 27(1), 53-56, 1999.  <a href="https://doi.org/10.1051/analisis:1999105">https://doi.org/10.1051/analisis:1999105</a>	Potentiometric, enantioselective membrane electrodes for S-enalapril assay	H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden	-
26	Seminars in Food Analysis, 4(1), 31-37, 1999.  <a href="https://www.semanticscholar.org/paper/Analysis-of-L-and-D-ascorbic-acid-in-fruits-and-by-Aboul%E2%80%90Enein-Al-Duraibi/40ff9da08f6b9e22">https://www.semanticscholar.org/paper/Analysis-of-L-and-D-ascorbic-acid-in-fruits-and-by-Aboul%E2%80%90Enein-Al-Duraibi/40ff9da08f6b9e22</a>	Analysis of L- and D-ascorbic acid in fruits and fruit drinks by HPLC	H.Y. Aboul-Enein, I.A. Al-Duraibi, R.I. Stefan, C. Radoi and A. Avramescu	-

	<a href="https://doi.org/10.1080/10826069908544693">4e9fabbbf11f1e6e7964703f</a>			
27	Prep. Biochem. & Biotechnol., 29(1), 55-61, 1999.  <a href="https://doi.org/10.1080/10826069908544693">https://doi.org/10.1080/10826069908544693</a>	Biosensors for the enantioselective analysis of S-perindopril	H.Y. Aboul-Enein, R.I. Stefan and G.L. Radu	0.214
28	Anal. Lett., 32(3), 447-455, 1999.  <a href="https://doi.org/10.1080/00032719908542832">https://doi.org/10.1080/00032719908542832</a>	The construction of an amperometric immunosensor for the thyroid hormone (+)-3,3',5-triiodo-L-thyronine (T <sub>3</sub> )	H.Y. Aboul-Enein, R.I. Stefan, G.L. Radu and G.E. Baiulescu	0.12875
29	Anal. Lett., 32(4), 623-632, 1999.  <a href="https://doi.org/10.1080/00032719908542844">https://doi.org/10.1080/00032719908542844</a>	Analysis of several angiotensin-converting enzyme inhibitors using potentiometric, enantioselective membrane electrodes	H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden	0.12875
30	Pharm. Developm. Technol., 4(2), 251-255, 1999.  <a href="https://doi.org/10.1081/PD-T-100101359">https://doi.org/10.1081/PD-T-100101359</a>	Biosensor for the enantioselective analysis of S-cilazapril, S-trandolapril and S-pentopril	H.Y. Aboul-Enein, R.I. Stefan and G.L. Radu	0.228
31 Q1	Sens. Actuators B, 54(3), 261-265, 1999.  <a href="https://doi.org/10.1016/S0925-4005(99)00114-8">https://doi.org/10.1016/S0925-4005(99)00114-8</a>	Determination of S-perindopril using a flow injection system with an amperometric biosensor	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.7076
32	S Afr.J. Chem., 52 (1) (1999) 24 - 26.  <a href="https://hdl.handle.net/10520/AJA03794350_1835">https://hdl.handle.net/10520/AJA03794350_1835</a>	On-line monitoring of calcium in natural and borehole water with a flow injection system using a calcium-selective membrane electrode	J.F. van Staden and R.I. Stefan	0.208
33	Instrum. Sci. & Technol., 27(2), 89-93, 1999.	The opportunity to use ion-selective membrane electrodes for dissolution tests	H.Y. Aboul-Enein and R.I. Stefan	0.2565

	<a href="https://doi.org/10.1080/10739149908085836">https://doi.org/10.1080/10739149908085836</a>			
34 Q1	Crit. Rev. Anal. Chem., 29(2), 133-153, 1999.  <a href="https://doi.org/10.1080/10408349891199293">https://doi.org/10.1080/10408349891199293</a>	Electrochemical sensor arrays	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.544
35	Accred. Qual. Assur., 4(6), 225-229, 1999.  <a href="https://doi.org/10.1007/s007690050356">https://doi.org/10.1007/s007690050356</a>	Estimation of uncertainties in clinical analysis	R.I. Stefan, G.E. Baiulescu, H.Y. Aboul-Enein and J.F. van Staden	0.071
36	Electroanalysis, 11(3), 192-194, 1999.  <a href="https://doi.org/10.1002/(SICI)1521-4109(199903)11:3&lt;192::AID-ELAN192&gt;3.0.CO;2-O">https://doi.org/10.1002/(SICI)1521-4109(199903)11:3&lt;192::AID-ELAN192&gt;3.0.CO;2-O</a>	Detection of S-enantiomer of cilazapril, pentopril and trandolapril using potentiometric, enantioselective membrane electrode	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.264
37	Chemia Analityczna, 44(3), 417-422, 1999.  <a href="https://yadda.icm.edu.pl/yadda/element/bwmeta1.element.baztech-volume-0009-2223-chemia_analityczna-1999-vol_44_no_3a">https://yadda.icm.edu.pl/yadda/element/bwmeta1.element.baztech-volume-0009-2223-chemia_analityczna-1999-vol_44_no_3a</a>	Enantioselective membrane electrode for S-ramipril assay	R.I. Stefan, J.F. van Staden, G.E. Baiulescu and H.Y. Aboul-Enein	-
38	Chirality, 11(8), 631-634, 1999.  <a href="https://doi.org/10.1002/(SICI)1520-636X(1999)11:8&lt;631::AID-CHIR4&gt;3.0.CO;2-K">https://doi.org/10.1002/(SICI)1520-636X(1999)11:8&lt;631::AID-CHIR4&gt;3.0.CO;2-K</a>	S-perindopril assay using a potentiometric, enantioselective membrane electrode	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.388
39	Saudi Pharm. J., 7(2), 103-110, 1999.	The reliability of the sampling process for the trace atmospheric constituents	R.I. Stefan, H.Y. Aboul-Enein and G.E. Baiulescu	0.305

40	Pharm. Acta Helv., 73(6), 307-310, 1999. <a href="https://doi.org/10.1016/S0031-6865(99)00008-4">https://doi.org/10.1016/S0031-6865(99)00008-4</a>	Determination of fluoride in toothpaste, effluents streams and natural and borehole water using a flow injection system with a fluoride-selective membrane electrode	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	-
41	Electroanalysis, 11(16), 1233-1235, 1999. <a href="https://doi.org/10.1002/(SICI)1521-4109(199911)11:16&lt;1233::AID-ELAN1233&gt;3.0.CO;2-F">https://doi.org/10.1002/(SICI)1521-4109(199911)11:16&lt;1233::AID-ELAN1233&gt;3.0.CO;2-F</a>	Analysis of chiral drugs with enantioselective biosensors. An overview.	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.264
42 Q1	Talanta, 49(5), 1017-1022, 1999. <a href="https://doi.org/10.1016/S0039-9140(99)00060-0">https://doi.org/10.1016/S0039-9140(99)00060-0</a>	Simultaneous flow injection analysis of calcium and fluoride in natural and borehole water with conventional ion-selective electrodes in series	J.F. van Staden and R.I. Stefan	0.8535
43 Q1	Crit. Rev. Anal. Chem., 29(4), 323-331, 1999. <a href="https://doi.org/10.1080/10408349891199338">https://doi.org/10.1080/10408349891199338</a>	Chemiluminescence-based (bio)sensors	H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden	0.544
44	NOESIS, 24, 159-163, 1999.	Nicolae Teclu one of the founders of the spectrometric techniques	G.E. Baiulescu and R.I. Stefan	-
45	Fresenius J. Anal. Chem., 366(6/7), 659-668, 2000. <a href="https://doi.org/10.1007/s002160051560">https://doi.org/10.1007/s002160051560</a>	Immunosensors in clinical analysis	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.478
46	Fresenius J. Anal. Chem., 367(2), 178-180, 2000. <a href="https://doi.org/10.1007/s002160051620">https://doi.org/10.1007/s002160051620</a>	Amperometric biosensors based on D-amino acid oxidase for R-perindopril assay	J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein	0.478
47 Q1	Talanta, 51(5), 969-975, 2000.	Simultaneous determination of S- and R-captopril using sequential injection analysis	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.569

	<a href="https://doi.org/10.1016/S0039-9140(00)00282-4">https://doi.org/10.1016/S0039-9140(00)00282-4</a>			
48 Q1	Biosens. Bioelectron., 15(1-2), 1-5, 2000. <a href="https://doi.org/10.1016/S0956-5663(99)00075-5">https://doi.org/10.1016/S0956-5663(99)00075-5</a>	An amperometric biosensors/SIA system for the simultaneous determination of S- and R-captopril	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	1.174
49 Q1	Talanta, 52(1), 3-11, 2000 <a href="https://doi.org/10.1016/S0039-9140(99)00359-8">https://doi.org/10.1016/S0039-9140(99)00359-8</a>	Evaluation of different SIA systems using an electrochemical sensor as detector	J.F. van Staden, R.I. Stefan and S. Birghila	0.569
50 Q1	Sens. Actuators B, 65(1-3), 250-252, 2000. <a href="https://doi.org/10.1016/S0925-4005(99)00344-5">https://doi.org/10.1016/S0925-4005(99)00344-5</a>	Determination of urinary oxalate using oxalate-selective membrane electrodes	R.I. Stefan, I. Draghici and G.E. Baiulescu	0.7076
51 Q1	Anal. Chim. Acta, 411(1-2), 51-56, 2000. <a href="https://doi.org/10.1016/S003-2670(00)00780-7">https://doi.org/10.1016/S003-2670(00)00780-7</a>	On-line assay of S-captopril using an amperometric biosensor/SIA system	J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein	0.670
52	Combinatorial Chemistry & High Throughput Screening, 3(6), 445-454, 2000. <a href="https://doi.org/10.2174/1386207003331382">https://doi.org/10.2174/1386207003331382</a>	Design and use of electrochemical sensors in enantioselective high throughput screening of drugs	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.1986
53 Q1	Crit. Rev. Anal. Chem., 30(4), 271-289, 2000. <a href="https://doi.org/10.1080/10408340008984161">https://doi.org/10.1080/10408340008984161</a>	Recent developments and applications of chemiluminescence sensors	R.I. Stefan, H.Y. Aboul-Enein, J.F. van Staden, X.R. Zhang, A.M. Garcia-Campana and W.R.G. Bayens	0.3264
54	Crystal Engineering, 4, 113-118, 2001. <a href="https://doi.org/10.1016/S1463-0184(00)00047-2">https://doi.org/10.1016/S1463-0184(00)00047-2</a>	Molecular recognition in chiral discrimination	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	-



55	Fresenius J. Anal. Chem., 370(1), 33-37, 2001. <a href="https://doi.org/10.1007/s002160100741">https://doi.org/10.1007/s002160100741</a>	Maltodextrins as new chiral selectors in potentiometric enantioselective, membrane electrodes design	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.4786
56	Pure and Appl. Chem., 73(8), 1381-1386, 2001. <a href="http://dx.doi.org/10.1351/pac200173081381">http://dx.doi.org/10.1351/pac200173081381</a>	Selectivity in analytical chemistry. Recommendations for its use.	J. Vessman, R.I. Stefan, J.F. van Staden, A. Fajgel, K. Danzer, W. Lindner, H. Muller and D.T. Burns	0.112375
57	Prep. Biochem. Biotechnol., 32(2), 135-142, 2002. <a href="https://doi.org/10.1081/PB-120004126">https://doi.org/10.1081/PB-120004126</a>	A bienzymatic amperometric sensor for proteins assay in milk	R.I. Stefan, M.A. Makhafola and J.F. van Staden	0.2143
58	S. Afr. J. Chem., 55, 39-51, 2002. <a href="https://hdl.handle.net/10520/EJC23666">https://hdl.handle.net/10520/EJC23666</a>	On-line determination of hydrochloric acid in process effluent streams by potentiometric sequential injection acid-base titration	J.F. van Staden, M.G. Mashamba and R.I. Stefan	0.1386
59	J. Immunoassay Immunochem., 23(2), 181-190, 2002. <a href="https://doi.org/10.1081/IAS-120003660">https://doi.org/10.1081/IAS-120003660</a>	Biosensors for the enantioselective analysis of the thyroid hormones L-triiodothyronine (T <sub>3</sub> ) and L-tetraiodothyronine (T <sub>4</sub> )	H.Y. Aboul-Enein, R.I. Stefan, S. Litescu and G.L. Radu	-
60 Q1	Anal. Chim. Acta, 467, 189-195, 2002. <a href="https://doi.org/10.1016/S0003-2670(02)00089-2">https://doi.org/10.1016/S0003-2670(02)00089-2</a>	On-line simultaneous determination of S- and R-perindopril using amperometric biosensors as detectors in flow systems	R.I. Stefan, J.F. van Staden, L.V. Mulaudzi and H.Y. Aboul-Enein	0.50275
61 Q1	Anal. Chim. Acta, 467, 35-49, 2002. <a href="https://doi.org/10.1016/S0003-2670(02)00128-9">https://doi.org/10.1016/S0003-2670(02)00128-9</a>	On-line speciation of iron(II) and iron(III) using a spectrophotometric sequential injection system	L.V. Mulaudzi, J.F. van Staden and R.I. Stefan	0.670
62	J. Immunoassay Immunochem., 23(4), 429-437, 2002.	The construction of an amperometric immunosensor for the thyroid hormone (+)-3,3',5,5'-tetraiodo-L-thyronine	R.I. Stefan and H.Y. Aboul-Enein	-



	<a href="https://doi.org/10.1081/IAS-120015474">https://doi.org/10.1081/IAS-120015474</a>			
63	Instrum. Sci. & Technol., 30(3), 243-250, 2002. <a href="https://doi.org/10.1081/CI-120005489">https://doi.org/10.1081/CI-120005489</a>	On-line monitoring of R-captopril using an amperometric biosensor/SIA system	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.171
64 Q1	Anal. Chim. Acta, 467, 51-60, 2002. <a href="https://doi.org/10.1016/S0003-2670(02)00188-5">https://doi.org/10.1016/S0003-2670(02)00188-5</a>	Speciation of chromium(III) and chromium(VI) by use of a spectrophotometric sequential injection system	L.V. Mulaudzi, J.F. van Staden and R.I. Stefan	0.670
65	Pure and Appl. Chem., 74, 585-592, 2002. <a href="http://dx.doi.org/10.1351/pac200274040585">http://dx.doi.org/10.1351/pac200274040585</a>	Information essential for characterizing a flow-based analytical system	E.A.G. Zagatto, J.F. van Staden, N. Maniasso, G.D. Marshall and R.I. Stefan	0.1798
66 Q1	Talanta, 58(6), 1089-1094, 2002. <a href="https://doi.org/10.1016/S0039-9140(02)00206-0">https://doi.org/10.1016/S0039-9140(02)00206-0</a>	On-line dilution and determination of the amount of concentrated hydrochloric acid in the final products from a hydrochloric acid production plant using a sequential injection titration system	J.F. van Staden, M.G. Mashamba and R.I. Stefan	0.569
67 Q1	Talanta, 58(6), 1109-1114, 2002. <a href="https://doi.org/10.1016/S0039-9140(02)00408-3">https://doi.org/10.1016/S0039-9140(02)00408-3</a>	Determination of the total acidity in soft drinks using potentiometric sequential injection titration analysis	J.F. van Staden, M.G. Mashamba and R.I. Stefan	0.569
68	Anal. Bioanal. Chem., 374, 3-12, 2002. <a href="https://doi.org/10.1007/s00216-002-1441-5">https://doi.org/10.1007/s00216-002-1441-5</a>	New horizons in sequential injection kinetic analysis	J.F. van Staden and R.I. Stefan	0.718
69	Anal. Bioanal. Chem., 374, 141-144, 2002. <a href="https://doi.org/10.1007/s00216-002-1462-0">https://doi.org/10.1007/s00216-002-1462-0</a>	An on-line potentiometric sequential injection titration process analyzer for the determination of acetic acid	J.F. van Staden, M.G. Mashamba and R.I. Stefan	0.4786
70	Accred. Qual. Assur., 8(2), 86-89, 2003	Estimation of uncertainties for the application of electrochemical sensors in clinical analysis	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.0946

	<a href="https://doi.org/10.1007/s00769-002-0560-1">https://doi.org/10.1007/s00769-002-0560-1</a>			
71 Q1	Talanta, 59(5), 883-887, 2003. <a href="https://doi.org/10.1016/S0039-9140(02)00644-6">https://doi.org/10.1016/S0039-9140(02)00644-6</a>	Immunosensor for the determination of azidothymidine. Its utilization as detector in a sequential injection analysis system.	R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein	0.42675
72	Anal. Lett., 36(6), 1089-1100, 2003. <a href="https://doi.org/10.1081/AL-120020145">https://doi.org/10.1081/AL-120020145</a>	Determination of L- and D-enantiomers of carnitine using amperometric biosensors	R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein	0.12875
73 Q1	Crit. Rev. Anal. Chem., 33(2), 145-153, 2003. <a href="https://doi.org/10.1080/713609159">https://doi.org/10.1080/713609159</a>	Polycrystalline diamond based electrochemical sensors and their applications in inorganic and organic analysis	S.G. Bairu, R.I. Stefan and J.F. van Staden	0.544
74	Anal. Lett., 36(8), 1493-1500, 2003. <a href="https://doi.org/10.1081/AL-120021531">https://doi.org/10.1081/AL-120021531</a>	Diamond paste based electrodes for the determination of iodide in vitamins and table salt	R.I. Stefan, S.G. Bairu and J.F. van Staden	0.1716
75 Q1	Sens. Actuators B, 92(1-2), 228-231, 2003. <a href="https://doi.org/10.1016/S0925-4005(03)00268-5">https://doi.org/10.1016/S0925-4005(03)00268-5</a>	Biosensors for enantioselective analysis of S-captopril	R.I. Stefan, C. Bala and H.Y. Aboul-Enein	0.7076
76	Instrum. Sci. & Technol., 31(3), 261-167, 2003. <a href="https://doi.org/10.1081/CI-120022653">https://doi.org/10.1081/CI-120022653</a>	Diamond paste based electrodes for the determination of Cr(VI) at trace levels	R.I. Stefan and S.G. Bairu	0.2565
77	Instrum. Sci. & Technol., 31(2), 183-188, 2003. <a href="https://doi.org/10.1081/CI-120020230">https://doi.org/10.1081/CI-120020230</a>	Determination of creatine and creatinine using a diamond paste based electrode	R.I. Stefan and R.G. Bokretsion	0.2565
78	Prep. Biochem. Biotechnol., 33(3), 163-171, 2003.	Biosensors for the determination of ortho-acetyl-L-carnitine. Their utilization as detectors in a	R.I. Stefan, R.G. Bokretsion, J.F. van	0.16075

	<a href="https://doi.org/10.1081/PB-120022985">https://doi.org/10.1081/PB-120022985</a>	sequential injection analysis system	Staden and H.Y. Aboul-Enein	
79	J. Immunoassay Immunochem., 24(3), 319-324, 2003.  <a href="https://doi.org/10.1081/IAS-120022941">https://doi.org/10.1081/IAS-120022941</a>	Diamond paste based immunosensor for the determination of azidothymidine	R.I. Stefan and R.G. Bokretson	-
80 Q1	Talanta, 60(5), 983-990, 2003. <a href="https://doi.org/10.1016/S0039-9140(03)00177-2">https://doi.org/10.1016/S0039-9140(03)00177-2</a>	Determination of L- and D-enantiomers of methotrexate using amperometric biosensors	R.I. Stefan, R.G. Bokretson, J.F. van Staden and H.Y. Aboul-Enein	0.42675
81	Anal. Bioanal. Chem., 375(8), 1074-1082, 2003.  <a href="https://doi.org/10.1007/s00216-003-1814-4">https://doi.org/10.1007/s00216-003-1814-4</a>	On-line speciation of bromine and bromide by using sequential injection analysis with spectrophotometric detection	J.F. van Staden, L.V. Mulaudzi and R.I. Stefan	0.4786
82	Anal. Bioanal. Chem., 376(6), 844-847, 2003.  <a href="https://doi.org/10.1007/s00216-003-1974-2">https://doi.org/10.1007/s00216-003-1974-2</a>	Diamond paste based electrodes for the determination of Cr(III) in pharmaceutical compounds	R.I. Stefan, S.G. Bairu and J.F. van Staden	0.4786
83 Q1	Talanta, 60(6), 1223-1228, 2003. <a href="https://doi.org/10.1016/S0039-9140(03)00230-3">https://doi.org/10.1016/S0039-9140(03)00230-3</a>	Simultaneous determination of creatine and creatinine using amperometric biosensors	R.I. Stefan, R.G. Bokretson, J.F. van Staden and H.Y. Aboul-Enein	0.42675
84	J. Pharm. Biomed. Anal., 33(2), 323-328, 2003. <a href="https://doi.org/10.1016/S0731-7085(03)00284-X">https://doi.org/10.1016/S0731-7085(03)00284-X</a>	Simultaneous determination of L- and D-carnitine using a sequential injection analysis/amperometric biosensors system	R.I. Stefan, R.G. Bokretson, J.F. van Staden and H.Y. Aboul-Enein	0.27075
85 Q1	Sens. Actuators B, 94(3), 271-275, 2003. <a href="https://doi.org/10.1016/S0925-4005(03)00366-6">https://doi.org/10.1016/S0925-4005(03)00366-6</a>	Biosensors for the enantioselective analysis of pipecolic acid	R.I. Stefan, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.53075
86 Q1	Biosens. Bioelectron., 19(3), 261-267, 2003. <a href="https://doi.org/10.1016/S0956-5663(03)00210-0">https://doi.org/10.1016/S0956-5663(03)00210-0</a>	Simultaneous determination of L- and D-methotrexate using a sequential injection analysis/amperometric biosensors system	R.I. Stefan, R.G. Bokretson, J.F. van Staden and H.Y. Aboul-Enein	0.8805

87	Instrum. Sci. & Technol., 31(4), 411-416, 2003. <a href="https://doi.org/10.1081/CI-120025575">https://doi.org/10.1081/CI-120025575</a>	Determination of Fe(III) in water samples using diamond paste based electrodes	R.I. Stefan, S.G. Bairu and J.F. van Staden	0.171
88	Anal. Lett., 36(12), 2635-2644, 2003. <a href="https://doi.org/10.1081/AL-120024638">https://doi.org/10.1081/AL-120024638</a>	Determination of L- and D-pipecolic acid using diamond paste based amperometric biosensors	R.I. Stefan and R.M. Nejmem	0.2575
89 Q1	Analytical Chemistry, 75(20), 5394-5398, 2003. <a href="https://doi.org/10.1021/ac026300b">https://doi.org/10.1021/ac026300b</a>	Monocrystalline diamond paste based electrodes and their applications for the determination of Fe(II) in vitamins	R.I. Stefan and S.G. Bairu	1.4025
90	Sensor Letters, 1(1), 71-74, 2003. <a href="https://doi.org/10.1166/sl.2003.014">https://doi.org/10.1166/sl.2003.014</a>	New enantioselective, potentiometric membrane electrodes based on C <sub>70</sub> fullerenes as chiral selectors	R.I. Stefan	-
91 Q1	Anal.Chim.Acta, 499(1-2), 129-137, 2003. <a href="https://doi.org/10.1016/S0003-2670(03)00883-3">https://doi.org/10.1016/S0003-2670(03)00883-3</a>	Speciation of Mn(II) and Mn(VII) by on-line spectrophotometric sequential injection analysis	J.F. van Staden, L.V. Mulaudzi and R.I. Stefan	0.670
92 Q1	Talanta, 62(4), 681-685, 2004. <a href="https://doi.org/10.1016/j.talanta.2003.08.035">https://doi.org/10.1016/j.talanta.2003.08.035</a>	Utilization of maltodextrin based enantioselective, potentiometric membrane electrodes for the enantioselective assay of S-perindopril	K.I. Ozoemena, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.42675
93	Instrum.Sci. & Technol., 32(3), 311-320, 2004. <a href="https://doi.org/10.1081/CI-120030543">https://doi.org/10.1081/CI-120030543</a>	Determination of L and D-pipecolic acids using a diamond paste based electrode	R.I. Stefan, R.M. Nejmem	0.2565
94 Q1	Talanta, 63(3), 605-608, 2004. <a href="https://doi.org/10.1016/j.talanta.2003.12.023">https://doi.org/10.1016/j.talanta.2003.12.023</a>	Diamond paste based electrodes for the determination of Pb(II) at trace concentration levels	R.I. Stefan and S.G. Bairu	0.8535
95 Q1	Sens.Actuators B, 98(1), 97-100, 2004. <a href="https://doi.org/10.1016/j.snb.2003.09.029">https://doi.org/10.1016/j.snb.2003.09.029</a>	Enantioselective, potentiometric membrane electrodes based on maltodextrins. Their applications for determination of L-Proline.	K.I. Ozoemena and R.I. Stefan	1.0615

96 Q1	Talanta, 63(3), 515-519, 2004. <a href="https://doi.org/10.1016/j.talanta.2003.11.036">https://doi.org/10.1016/j.talanta.2003.11.036</a>	Determination of L-carnitine using enantioselective, potentiometric membrane electrodes based on macrocyclic antibiotics	AA. Rat'ko, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.42675
97	J. Immunoassay Immunochem., 25(2), 183-189, 2004. <a href="https://doi.org/10.1081/IAS-120030527">https://doi.org/10.1081/IAS-120030527</a>	Determination of (+)-3,3',5-triiodo-L-thyronine (L-T <sub>3</sub> ) from serum using a sequential injection analysis/immunosensor system	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	-
98 Q1	Sens.Actuators B, 99(2-3), 539-543, 2004. <a href="https://doi.org/10.1016/j.snb.2004.01.004">https://doi.org/10.1016/j.snb.2004.01.004</a>	Enantioselective, potentiometric membrane electrode based on vancomycin. Its application for the determination of D-pipecolic acid	A.A. Rat'ko, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.53075
99 Q1	Talanta, 64(1), 151-155, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.01.024">https://doi.org/10.1016/j.talanta.2004.01.024</a>	Simultaneous determination of L-thyroxine (L-T <sub>4</sub> ), D-thyroxine (D-T <sub>4</sub> ) and L-triiodothyronine (L-T <sub>3</sub> ) using a sensors/sequential injection	R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.569
100	Prep.Biochem.&Biotechnol., 34(2), 135-143, 2004. <a href="https://doi.org/10.1081/PB-120030872">https://doi.org/10.1081/PB-120030872</a>	New amperometric biosensor based on diamond paste for the assay of L- and D-pipecolic acids in serum samples	R.I. Stefan, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.16075
101 Q1	Talanta, 64(1), 145-150, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.01.022">https://doi.org/10.1016/j.talanta.2004.01.022</a>	Macrocyclic antibiotics as chiral selectors in the design of enantioselective, potentiometric membrane electrodes for the assay of L- and D-enantiomers of methotrexate	A.A. Rat'ko, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.42675
102	Electroanalysis, 20(16), 1730-1733, 2004. <a href="https://doi.org/10.1002/elan.200303022">https://doi.org/10.1002/elan.200303022</a>	Enantioselective, potentiometric membrane electrodes for the determination of L-pipecolic acid in serum	R.I. Stefan, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.198
103	Instrum. Sci. & Technol., 32(4), 371-378, 2004. <a href="https://doi.org/10.1081/CI-120037669">https://doi.org/10.1081/CI-120037669</a>	Enantioselective, potentiometric membrane electrode based on vancomycin as chiral selector, for the assay of S-perindopril	K.I. Ozoemena, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.12825

104	J.Pharm.Biomed.Anal., 36, 889-892, 2004. <a href="https://doi.org/10.1016/j.jpba.2004.08.017">https://doi.org/10.1016/j.jpba.2004.08.017</a>	On-line assay of the S-enantiomer of enalapril, ramipril and pentopril using a sequential injection analysis/amperometric biosensor system	R.I. Stefan, J.F. van Staden, C. Bala and H.Y. Aboul-Enein	0.27075
105	Instrum.Sci. & Technol., 32(6), 601-610, 2004 <a href="https://doi.org/10.1081/CI-200037017">https://doi.org/10.1081/CI-200037017</a>	Macrocyclic antibiotics as chiral selectors in the design of enantioselective, potentiometric membrane electrodes	A.A. Rat'ko, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.12825
106	Anal.Lett., 37(13), 2641-2648, 2004. <a href="https://doi.org/10.1081/AL-200031940">https://doi.org/10.1081/AL-200031940</a>	Determination of 2',3'-dideoxyinosine using iron(II) phthalocyanine modified carbon paste electrode	K.I. Ozoemena, R.I. Stefan and T. Nyokong	0.1716
107	Anal.Lett., 37(15), 3161-3173, 2004. <a href="https://doi.org/10.1081/AL-200040315">https://doi.org/10.1081/AL-200040315</a>	Teicoplanine-based enantioselective potentiometric membrane electrodes for the determination of R-baclofen in pharmaceutical formulations	A.A. Rat'ko and R.I. Stefan	0.2575
108	IL Farmaco, 59, 993-997, 2004.	Determination of baclofen enantiomers in pharmaceutical formulations using maltodextrin based enantioselective, potentiometric electrodes	A.A. Rat'ko and R.I. Stefan-van Staden	-
109	IL Farmaco, 59, 1005-1010, 2004.	Sequential injection spectrophotometric determination of etilefrine hydrochloride	N.W. Beyene, J.F. van Staden and R.I. Stefan	-
110 Q1	Talanta, 64(4), 981-988, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.04.026">https://doi.org/10.1016/j.talanta.2004.04.026</a>	Spectrophotometric determination of magnesium in pharmaceutical preparations by cost-effective sequential injection analysis	Z.O. Tesfaldet, J.F. van Staden and R.I. Stefan	0.569
111 Q1	Talanta, 64(5), 1213-1219, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.04.038">https://doi.org/10.1016/j.talanta.2004.04.038</a>	Sequential injection spectrophotometric determination of trace amounts of iodide by its catalytic effect on the 4,4'-methylenebis(N,N-dimethylalanine)chloamine-T reaction	Z.O. Tesfaldet, J.F. van Staden and R.I. Stefan	0.569



112 Q1	Anal.Chim.Acta, 521(2), 223-229, 2004. <a href="https://doi.org/10.1016/j.aca.2004.06.014">https://doi.org/10.1016/j.aca.2004.06.014</a>	Determination of fenoterol hydrobromide by sequential injection analysis (SIA) with spectrophotometric detection	N.W. Beyene, J.F. van Staden and R.I. Stefan	0.670
113 Q1	Talanta, 64(5), 1109-1113, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.05.042">https://doi.org/10.1016/j.talanta.2004.05.042</a>	Chemical speciation by sequential injection analysis (SIA) with spectrophotometric detection	J.F. van Staden and R.I. Stefan	0.8535
114 Q1	Talanta, 64(5), 1189-1195, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.02.044">https://doi.org/10.1016/j.talanta.2004.02.044</a>	Sequential injection spectrophotometric determination of iron (II) in multi-vitamin preparations using 1,10-phenanthroline as complexing agent	Z.O. Tesfaldet, J.F. van Staden and R.I. Stefan	0.569
115 Q1	Talanta, 64(5), 1196-1202, 2004. <a href="https://doi.org/10.1016/j.talanta.2004.04.031">https://doi.org/10.1016/j.talanta.2004.04.031</a>	Spectrophotometric determination of bromate by sequential injection analysis	J.F. van Staden, L.V. Mulaudzi and R.I. Stefan	0.569
116 Q1	Talanta, 65(2), 437-440, 2005. <a href="https://doi.org/10.1016/j.talanta.2004.06.040">https://doi.org/10.1016/j.talanta.2004.06.040</a>	Enantioanalysis of L-hydroxyglutaric acid in urine samples using enantioselective, potentiometric membrane electrodes based on maltodextrins	R.M. Nejem, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.42675
117 Q1	Sens.Actuators B, 105(2), 425-429, 2005. <a href="https://doi.org/10.1016/j.snb.2004.06.032">https://doi.org/10.1016/j.snb.2004.06.032</a>	Enantioanalysis of S-perindopril using different cyclodextrin-based potentiometric sensors	K.I. Ozoemena, R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein	0.53075
118 Q1	Sens.Actuators B, 106(2), 791-795, 2005. <a href="https://doi.org/10.1016/j.snb.2004.09.031">https://doi.org/10.1016/j.snb.2004.09.031</a>	Determination of D-hydroxyglutaric acid in urine samples using enantioselective, potentiometric membrane electrodes based on antibiotics	R.I. Stefan, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.53075
119 Q1	Sens.Actuators B, 106(2), 736-740, 2005. <a href="https://doi.org/10.1016/j.snb.2004.09.025">https://doi.org/10.1016/j.snb.2004.09.025</a>	Enantioanalysis of glyceric acid in urine samples using enantioselective, potentiometric membrane electrodes based on maltodextrins	R.I. Stefan and R.M. Nejem	1.0615

120 Q1	Talanta, 66(2), 501-504, 2005. <a href="https://doi.org/10.1016/j.talanta.2004.11.024">https://doi.org/10.1016/j.talanta.2004.11.024</a>	Enantioselective, potentiometric membrane electrodes based on $\alpha$ -, $\beta$ -, and $\gamma$ -cyclodextrins as chiral selectors for the assay of L-proline	K.I. Ozoemena and R.I. Stefan	0.8535
121	IL Farmaco, 60, 613-619, 2005.	Determination of isoxsuprine hydrochloride by sequential injection visible spectrophotometry	N.W. Beyene, J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein	-
122	Anal.Lett., 38(12), 1847-1855, 2005. <a href="https://doi.org/10.1080/00032710500230830">https://doi.org/10.1080/00032710500230830</a>	Enantioselective, potentiometric membrane electrodes based on cyclodextrins for the assay of L- and D-hydroxyglutaric acids	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.12875
123 Q1	Talanta, 68(2), 401-405, 2005. <a href="https://doi.org/10.1016/j.talanta.2005.08.069">https://doi.org/10.1016/j.talanta.2005.08.069</a>	Sequential injection spectrophotometric determination of ritodrine hydrochloride using 4-aminoantipyrine	N.W. Beyene, J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein	0.42675
124 Q1	Talanta, 69(5), 1049-1053, 2006 <a href="https://doi.org/10.1016/j.talanta.2005.12.022">https://doi.org/10.1016/j.talanta.2005.12.022</a>	Enantioselective, potentiometric membrane electrodes based on cyclodextrins: application for the determination of R-baclofen in its pharmaceutical formulation	R.I. Stefan-van Staden and A.A. Rat'ko	0.8535
125	Instrum. Sci. & Technol., 34(4), 475-481, 2006. <a href="https://doi.org/10.1080/10739140600648886">https://doi.org/10.1080/10739140600648886</a>	Determination of L- and D-enantiomers of leucine using amperometric biosensors	R.I. Stefan-van Staden and L.S. Muvhulawa	0.2565
126	Anal.Lett., 39(4), 675-682, 2006 <a href="https://doi.org/10.1080/00032710600609750">https://doi.org/10.1080/00032710600609750</a>	Determination of L-vesamicol in serum samples using enantioselective, potentiometric membrane electrodes based on antibiotic	R.I. Stefan-van Staden and R.M. Nejem	0.2575
127 Q1	Sens. Actuators B, 117(1), 123-127, 2006 <a href="https://doi.org/10.1016/j.snb.2005.11.007">https://doi.org/10.1016/j.snb.2005.11.007</a>	Cyclodextrins based enantioselective, potentiometric membrane electrodes for L-vesamicol assay in serum samples	R.I. Stefan-van Staden and R.M. Nejem	1.0615



128	Anal.Lett., 39(6), 1065-1073, 2006 <a href="https://doi.org/10.1080/00032710600620401">https://doi.org/10.1080/00032710600620401</a>	Utilization of maltodextrins based enantioselective, potentiometric membrane electrodes for the enantioselective assay of S-flurbiprofen	R.I. Stefan-van Staden, R.G. Bokretsion and K.I. Ozoemena	0.1716
129	Anal.Lett., 39(7), 1311-1319, 2006 <a href="https://doi.org/10.1080/00032710600666396">https://doi.org/10.1080/00032710600666396</a>	Enantioselective, potentiometric membrane electrodes based on C <sub>60</sub> fullerenes derivatives for the enantioanalysis of S-clenbuterol	R.I. Stefan-van Staden and B. Lal	0.1716
130 Q1	Sens.Actuators B, 120(1), 295-297, 2006 <a href="https://doi.org/10.1016/j.snb.2006.02.044">https://doi.org/10.1016/j.snb.2006.02.044</a>	Enantioselective assay of S(+)-ibuprofen using enantioselective, potentiometric membrane electrodes based on maltodextrins	R.I. Stefan-van Staden and T. Mashile	1.0615
131	Anal.Lett., 39(11), 2227-2233, 2006 <a href="https://doi.org/10.1080/00032710600751016">https://doi.org/10.1080/00032710600751016</a>	Simultaneous determination of creatine and creatinine using monocrystalline diamond paste based amperometric biosensors	R.I. Stefan-van Staden and R.G. Bokretsion	0.2575
132	Electroanalysis, 18(17), 1718-1721, 2006 <a href="https://doi.org/10.1002/elan.200603574">https://doi.org/10.1002/elan.200603574</a>	Enantioselective, potentiometric membrane electrodes based on different cyclodextrines as chiral selectors for the assay of S-flurbiprofen	R.I. Stefan-van Staden, R.G. Bokretsion, K.I. Ozoemena, J.F. van Staden, H.Y. Aboul-Enein	0.1584
133	Prep.Biochem.Biotechnol., 36(4), 287-296, 2006 <a href="https://doi.org/10.1080/10826060600912393">https://doi.org/10.1080/10826060600912393</a>	Simultaneous detection of creatine and creatinine using a sequential injection analysis/amperometric biosensors system	R.I. Stefan-van Staden, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein	0.16075
134 Q1	Sens. Actuators B, 120(2), 399-402, 2007 <a href="https://doi.org/10.1016/j.snb.2006.02.033">https://doi.org/10.1016/j.snb.2006.02.033</a>	Enantioselective, potentiometric membrane electrodes based on cyclodextrines for the determination of L-histidine	R.I. Stefan-van Staden and L. Holo	1.0615
135	Instrum.Sci.Technol., 35(2), 117-123, 2007 <a href="https://doi.org/10.1080/10739140601126262">https://doi.org/10.1080/10739140601126262</a>	Determination of R-deprenyl using a maltodextrin based enantioselective, potentiometric membrane electrode	R.I. Stefan-van Staden, T.R. Mashile	0.2565

136 Q1	Talanta, 71(3), 1434-1437, 2007 <a href="https://doi.org/10.1016/j.talanta.2006.05.088">https://doi.org/10.1016/j.talanta.2006.05.088</a>	Enantioselective, potentiometric membrane electrodes based on C <sub>60</sub> fullerenes and its derivatives for the assay of L-histidine	R.I. Stefan-van Staden, B. Lal and L. Holo	0.569
137	Instrum.Sci.Technol., 36(4), 355-368, 2008. <a href="https://doi.org/10.1080/10739140802151366">https://doi.org/10.1080/10739140802151366</a>	Sequential injection analysis utilizing amperometric biosensors as detectors for simultaneous determination of L- and D-pipecolic acid	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.12825
138	J. Immunoassay & Immunochem., 29(4), 348-355, 2008. <a href="https://doi.org/10.1080/15321810802329690">https://doi.org/10.1080/15321810802329690</a>	Determination of (+)-3,3',5,5'-tetraiodo-L-thyronine (L-T <sub>4</sub> ) in serum and in pharmaceutical formulations using a sequential injection analysis/immunosensor system	R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein, M.C. Mirica, I. Balcu, N. Mirica	-
139	Anal.Lett. 42(2), 323-329, 2009 <a href="https://doi.org/10.1080/00032710802585733">https://doi.org/10.1080/00032710802585733</a>	Enantioanalysis of L-proline using C <sub>60</sub> as chiral selectors	R.I. Stefan-van Staden	0.515
140	Anal.Lett., 42(5), 758-763, 2009. <a href="https://doi.org/10.1080/00032710902722012">https://doi.org/10.1080/00032710902722012</a>	Amperometric immunosensors for the determination of 2',3'-dideoxyinosine	R.I. Stefan-van Staden and K.I. Ozoemena	0.2575
141	Anal.Lett., 42(5), 764-774, 2009. <a href="https://doi.org/10.1080/00032710902722020">https://doi.org/10.1080/00032710902722020</a>	Enantioanalysis of S-ketoprofen using enantioselective, potentiometric membrane electrodes	R.I. Stefan-van Staden, N.S. Nhlapo, J.F. van Staden, H.Y. Aboul-Enein	0.12875
142	Anal.Bioanal.Chem., 394(3), 821-826, 2009. <a href="https://doi.org/10.1007/s00216-009-2742-8">https://doi.org/10.1007/s00216-009-2742-8</a>	Macrocyclic antibiotics as chiral selectors in the design of enantioselective, potentiometric membrane electrodes for the determination of S-flurbiprofen	R.I. Stefan-van Staden, J.F. van Staden and H.Y. Aboul-Enein	0.4786
143	Prep.Biochem.Biotechnol., 39(2), 142-146, 2009.	Utilization of an Enantioselective Surface Plasmon Resonance Electrode for the Selection of the Best C <sub>70</sub> Fullerene as Chiral	R.I. Stefan-van Staden, L. Holo	0.3215

	<a href="https://doi.org/10.1080/10826060902800304">https://doi.org/10.1080/10826060902800304</a>	Selector for the Enantioanalysis of L-Cysteine		
144	Electroanalysis, 21(14), 1651-1654, 2009.  <a href="https://doi.org/10.1002/elan.200904581">https://doi.org/10.1002/elan.200904581</a>	Metallophthalocyanine based carbon paste electrodes for the determination of 2',3'-dideoxyinosine	K.I. Ozoemena, R.I. Stefan-van Staden and T. Nyokong	0.264
145	Instrum.Sci.Technol., 37(2), 189–196, 2009  <a href="https://doi.org/10.1080/10739140902735472">https://doi.org/10.1080/10739140902735472</a>	Enantioselective determination of R-clenbuterol using an enantioselective, potentiometric membrane electrode based on a $\beta$ -cyclodextrin derivative	R.I. Stefan-van Staden, L. Holo, B Moeketsi, J.F. van Staden, and H.Y. Aboul-Enein	0.1026
146	Instrum.Sci.Technol., 37(2), 197–203, 2009  <a href="https://doi.org/10.1080/10739140902735548">https://doi.org/10.1080/10739140902735548</a>	Determination of S(+)-ibuprofen using enantioselective, potentiometric membrane electrodes based on macrocyclic antibiotics	R.I. Stefan-van Staden, T. Mashile, K.C. Mathabathe and J.F. van Staden	0.12825
147	Anal.Lett., 42(8), 1111-1118, 2009  <a href="https://doi.org/10.1080/00032710902890462">https://doi.org/10.1080/00032710902890462</a>	Enantioanalysis of butaclamol using enantioselective, potentiometric electrodes	R.I. Stefan-van Staden, R.G. Bokretsi, J.F. van Staden, H.Y. Aboul-Enein	0.12875
148	The Open Chem Biomed Meth J , 2, 107-110, 2009	Maltodextrins as chiral selectors in biomedical enantioanalysis. A minireview.	R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein, M.C. Mirica, M. Iorga, I. Balcu	-
149	J.Solid State Electrochem., 14(6), 997-1000, 2010  <a href="https://doi.org/10.1007/s1008-009-0901-7">https://doi.org/10.1007/s1008-009-0901-7</a>	Diamond paste based electrodes for the determination of sildenafil citrate (viagra)	R.I. Stefan-van Staden, J.F. van Staden and H.Y. Aboul-Enein	-
150	Combinatorial Chemistry & High Throughput Screening, 13, 497-501, 2010.  <a href="https://doi.org/10.2174/138620710791516094">https://doi.org/10.2174/138620710791516094</a>	Simultaneous determination of L- and D-T <sub>4</sub> using a sequential injection analysis/sensors system	R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein, I. Balcu	0.149

151	Anal.Lett., 43(7), 1119-1125, 2010 <a href="https://doi.org/10.1080/00032710903518559">https://doi.org/10.1080/00032710903518559</a>	Determination of free L-T <sub>4</sub> and free L-T <sub>3</sub> from blood using theimmunsensors/sequential injection analysis system	R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein, I. Balcu, M.C. Mirica, G.L. Radu	0.0858
152	Combinatorial Chemistry & High Throughput Screening, 13, 690-693, 2010. <a href="https://doi.org/10.2174/138620710791920301">https://doi.org/10.2174/138620710791920301</a>	Enantioanalysis of (-)butaclamol using vancomycin and teicoplanin as chiral selectors	R.I. Stefan-van Staden, N.S. Nhlapo, J.F. van Staden, H.Y. Aboul-Enein	0.149
153	Anal.Lett., 43(7), 1111-1118, 2010 <a href="https://doi.org/10.1080/00032710903518534">https://doi.org/10.1080/00032710903518534</a>	Micro- and nanosensors. Recent developments and features. A minireview.	R.I. Stefan-van Staden, J.F. van Staden, S.C. Balasoju, O.R. Vasile	0.12875
154 Q1	Talanta, 80(5), 1598-1605, 2010 <a href="https://doi.org/10.1016/j.talanta.2009.10.016">https://doi.org/10.1016/j.talanta.2009.10.016</a>	Application of porphyrins in flow-injection analysis. A Review.	J.F. van Staden, R.I. Stefan-van Staden	0.8535
155	Electrochim.Acta, 55(5), 1772-1777, 2010 <a href="https://doi.org/10.1016/j.electacta.2009.10.066">https://doi.org/10.1016/j.electacta.2009.10.066</a>	Enantioanalysis of S-deprenyl based on its interaction with C <sub>60</sub> fullerene derivatives	R.I. Stefan-van Staden	1.607
156	Analytical Methods, 2(1), 37-40, 2010 <a href="https://doi.org/10.1039/B9AY00086K">https://doi.org/10.1039/B9AY00086K</a>	Enantioanalysis of S-Ibuprofen using [5-6] Fullerene-C <sub>70</sub> and diethyl (1,2- methanofullerene C <sub>70</sub> )-71-71-dicarboxylate	R.I. Stefan-van Staden	0.515
157 Q1	Talanta, 81(3), 865-870, 2010 <a href="https://doi.org/10.1016/j.talanta.2010.01.030">https://doi.org/10.1016/j.talanta.2010.01.030</a>	Enantioanalysis of R-deprenyl based on its molecular interaction with C <sub>70</sub> fullerenes	R.I. Stefan-van Staden	1.707
158	New J Chem, 34(6), 1141-1147, 2010	Enantioanalysis of D-histidine based on its interaction with [5-6] fullerene-C <sub>70</sub> and diethyl (1,2-	R.I. Stefan-van Staden	0.976

	<a href="https://doi.org/10.1039/B9NJ00583H">https://doi.org/10.1039/B9NJ00583H</a>	methanofullerene C <sub>70</sub> -71-71-dicarboxylate		
159 Q1	Crit.Rev.Anal.Chem., 40(4), 226-233, 2010 <a href="https://doi.org/10.1080/10408347.2010.515450">https://doi.org/10.1080/10408347.2010.515450</a>	Wireless electrochemical sensors. A tool for process control. The past, present and the future. A mini-review.	J.F. van Staden, R.I. Stefan-van Staden, S.C. Balasoio	0.544
160	Anal.Meth., 2(6), 650-652, 2010. <a href="https://doi.org/10.1039/C0AY00118J">https://doi.org/10.1039/C0AY00118J</a>	Diamond paste based electrodes for the determination of Ag(I)	R.I. Stefan-van Staden, S.G. Bairu and J.F. van Staden	0.3606
161	The Open Chem Biomed Meth J , 3, 86-89, 2010	Enantioselective, potentiometric membrane electrodes based on $\alpha$ -, $\beta$ - and $\gamma$ -cyclodextrins as chiral selectors for the assay of S-deprenyl.	RI Stefan-van Staden, T.R. Mashile, J.F. van Staden, H.Y. Aboul-Enein	-
162 Q1	Anal.Chim.Acta, 668(2), 201-206, 2010 <a href="https://doi.org/10.1016/j.aca.2010.04.025">https://doi.org/10.1016/j.aca.2010.04.025</a>	Carbon and diamond paste microelectrodes based on Mn(III) porphyrins for the determination of dopamine	S.C. Balasoio, R.I. Stefan-van Staden, J.F. van Staden, G.L. Radu, S. Pruneanu	0.4022
163	Anal.Lett., 44(6), 968-975, 2011 <a href="https://doi.org/10.1080/00032719.2010.506935">https://doi.org/10.1080/00032719.2010.506935</a>	Enantioanalysis of L-histidine using enantioselective, potentiometric membrane electrodes based on maltodextrins	R.I. Stefan-van Staden, L. Holo	0.2575
164	Anal.Lett., 44(13), 2280-2286, 2011. <a href="https://doi.org/10.1080/00032719.2010.551688">https://doi.org/10.1080/00032719.2010.551688</a>	Disposable stochastic dot sensors for the assay of ascorbic acid in pharmaceutical samples, beverages and biological fluids	RI Stefan-van Staden, J.F. van Staden, CS Balasoio	0.1716
165	Current Pharm.Anal., 7(4), 253-257, 2011 <a href="https://doi.org/10.2174/157341211797458069">https://doi.org/10.2174/157341211797458069</a>	Enantioselective, potentiometric membrane electrodes based on maltodextrins and their applications for the determination of L-lysine in serum samples	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden, H.Y. Aboul-Enein	0.03
166	Current Pharm.Anal., 7(4), 258-261, 2011 <a href="https://doi.org/10.2174/157341211797457998">https://doi.org/10.2174/157341211797457998</a>	Cyclodextrins based enantioselective, potentiometric membrane electrodes and their applications for enantioanalysis of L-cysteine in urine	R.I. Stefan-van Staden, L. Holo, J.F. van Staden	0.04

167	International Journal of Electrochemistry, Volume 2011, Article ID427238, 4pg, <a href="https://doi.org/10.4061/2011/427238">https://doi.org/10.4061/2011/427238</a>	Enantioselective, potentiometric membrane electrodes based on antibiotics for the determination of L- and D-glyceric acids	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	-
168	Electrochimica Acta, 58(31), 290-295, 2011 <a href="https://doi.org/10.1016/j.electacta.2011.09.040">https://doi.org/10.1016/j.electacta.2011.09.040</a>	Amperometric dot-sensors based on zinc porphyrins for sildenafil citrate determination	S.C. Balasoiu, R.I. Stefan-van Staden, J.F. van Staden, R.M. Ion, G.L. Radu, H. Y. Aboul-Enein	0.26783
169 Q1	Analyst, 137(4), 903-909, 2012. <a href="https://doi.org/10.1039/C2AN15892B">https://doi.org/10.1039/C2AN15892B</a>	Determination of L- and D-fucose using amperometric electrodes based on diamond paste	R.I. Stefan-van Staden and R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.38475
170	Anal.Meth., 4(6), 1492-1497, 2012/With front cover. Published in a theme issue: Pharmaceutical Analysis. <a href="https://doi.org/10.1039/C2AY05515E">https://doi.org/10.1039/C2AY05515E</a>	Enantioanalysis of ketoprofen based on its interaction with C <sub>60</sub> fullerene and its derivatives	R.I. Stefan-van Staden, R.G. Bokretsion	0.541
171 Q1	Biosens & Bioelectron, 35(1), 439-442, 2012 <a href="https://doi.org/10.1016/j.bios.2012.02.036">https://doi.org/10.1016/j.bios.2012.02.036</a>	Amperometric biosensor based on diamond paste for the enantioanalysis of L-lysine	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein	0.8805
172	J.Porphyrins Phthalocyanines, 16(7-8), 809-816, 2012 <a href="https://doi.org/10.1142/S1088424612500794">https://doi.org/10.1142/S1088424612500794</a>	Microelectrodes based on porphyrins for the determination of ascorbic acid in pharmaceutical samples and beverages	R.I. Stefan-van Staden, S.C. Balasoiu, J.F. van Staden, G.L. Radu	0.1145
173	Current Pharm.Anal., 8(4), 334-338, 2012 <a href="https://doi.org/10.2174/157341212803341591">https://doi.org/10.2174/157341212803341591</a>	A novel ciprofloxacin selective membrane electrode	R.M. Nejem, M.M. Issa, R.I. Stefan-van Staden, H. Baroud	0.03



174 Q1	Talanta, 102, 34-43, 2012 <a href="https://doi.org/10.1016/j.talanta.2012.05.017">https://doi.org/10.1016/j.talanta.2012.05.017</a>	Flow-injection analysis systems with different detection devices and other related techniques for the in vitro and in vivo determination of dopamine as neurotransmitter. A review.	J.F. van Staden, R.I. Stefan-van Staden	0.8535
175 Q1	Journal of Electrochemical Society, 159(9), B789-B793, 2012 <a href="https://doi.org/10.1149/2.001209jes">https://doi.org/10.1149/2.001209jes</a>	Electroanalysis of oseltamivir phosphate using new microelectrodes based on zinc complexes with porphyrins and phthalocyanines	S.Pop, R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein, R.M. Ion, Z. Aydoğmuş	0.304
176 Q1	Journal of Electrochemical Society, 159(12), B839-B844, 2012 <a href="https://doi.org/10.1149/2.058212jes">https://doi.org/10.1149/2.058212jes</a>	Stochastic dot microsensors for the assay of dopamine in pharmaceutical samples and biological fluids	R.I. Stefan-van Staden, S.C. Balasoiu, J.F. van Staden	0.608
177	Electrophoresis, 34(1), 178-204, 2013 <a href="https://doi.org/10.1002/elps.201200239">https://doi.org/10.1002/elps.201200239</a>	Chiral Selectors in Capillary Electrophoresis – Recent Developments and Applications	D.A. Tsioupi, R.I. Stefan-van Staden, C.P. Kapnissi-Christodoulou	0.3173
178	Chirality, 25(2), 114-118, 2013 <a href="https://doi.org/10.1002/chir.22119">https://doi.org/10.1002/chir.22119</a>	Enantioanalysis of pipecolic acid with stochastic and potentiometric microsensors	R.I. Stefan-van Staden, I. Moldoveanu, D.F. Sava, C. Kapnissi-Christodoulou, J.F. van Staden	0.2328
179	Chirality, 25(9), 556-560, 2013 <a href="https://doi.org/10.1002/chir.22170">https://doi.org/10.1002/chir.22170</a>	Chiral separation of the clinically important compounds fucose and pipecolic acid using CE – determination of the most effective chiral selector	C.A. Hadjistasi, I.J. Stavrou, R.I. Stefan-van Staden, H.Y. Aboul-Enein, C.P. Kapnissi-Christodoulou	0.2328
180	Rev Roum Chim, 58(7-8), 659-665, 2013	Enantioselective, potentiometric membrane electrodes based on cyclodextrines for the assay of glyceric acid in urine samples	R.I. Stefan-van Staden, R.M. Nejem, J.F. van Staden	-
181	Rev Roum Chim, 58(7-8), 667-671, 2013	Vancomycin and teicoplanin based enantioselective, potentiometric membrane	R.I. Stefan-van Staden, L. Holo	-

		electrodes for the assay of L-cysteine		
182 Q1	J Electrochem Soc, 160(10), B192-B195, 2013 <a href="https://doi.org/10.1149/2.028310jes">https://doi.org/10.1149/2.028310jes</a>	Inulins as new electroactive materials for enantioanalysis of chiral drugs	R.I. Stefan-van Staden, S.C. Balasoiu, G. Bazylak, J.F. van Staden, H.Y. Aboul-Enein, G.L. Radu	0.304
183 Q1	J Electrochem Soc., 160(10), B196-B200, 2013 <a href="https://doi.org/10.1149/2.029310jes">https://doi.org/10.1149/2.029310jes</a>	Quinine, quinidine and their tert-butyl carbomylated derivatives as new chiral selectors in the potentiometric, enantioselective membrane electrodes design. Their application for the assay of S and R enantiomers of dinitrobenzene leucine	R.I. Stefan-van Staden, J.F. van Staden	0.912
184	International J. Spectroscopy, Volume 2013, Article ID 726820, 8 pages, <a href="https://dx.doi.org/10.1155/2013/726820">https://dx.doi.org/10.1155/2013/726820</a>	Resolution of ternary mixture of aspirin, atorvastatin and clopidogrel by chemometric-assisted UV spectroscopic and liquid chromatography methods	M. Issa, R.M. Nejem, A.M. Abu Shanab, R.I. Stefan-van Staden	-
185	J. Mod.Med.Chem., 1(2), 86-91, 2013	New tool for screening of whole blood for early detection of breast cancer antigen (CA153)	R.I. Stefan-van Staden, J.F. van Staden	-
186 Q1	J Electrochem Soc, 161(2), B3001-B3005, 2014 <a href="https://doi.org/10.1149/2.026312jes">https://doi.org/10.1149/2.026312jes</a>	Stochastic sensors based on nanostructured materials used in the screening of whole blood for hepatitis B	R.I. Stefan-van Staden, I. Moldoveanu	0.912
187 Q1	J Electrochem Soc., 161(2), B3014-B3022, 2014 <a href="https://doi.org/10.1149/2.002402jes">https://doi.org/10.1149/2.002402jes</a>	Graphene based dot microsensors for the assay of adenine, guanine and epinephrine	J.F. van Staden, R. Georgescu, R.I. Stefan-van Staden, I. Calinescu	0.456
188	Current Pharmaceutical Analysis, 10(1), 20-29, 2014	Influence of the physical immobilization of dsDNA on the carbon based matrices of electrochemical sensors	LA Gugoasa, RI Stefan-van Staden, AA Ciucu, JF van Staden	0.03



	<a href="https://doi.org/10.2174/157341291001140102104740">https://doi.org/10.2174/157341291001140102104740</a>			
189	J Periodontal Research, 49(6), 711-718, 2014 <a href="https://doi.org/10.1111/jre.12153">https://doi.org/10.1111/jre.12153</a>	Oral keratinocyte stem cells expansion but not differentiation on specific substrates	B. Calenic, I. Alexandru Paun, R.I. van Staden, M. Dinescu, A. Petre, A. Moldovan, M. Greabu	0.17428
190	Chirality, 26(3), 129-131, 2014 <a href="https://doi.org/10.1002/chir.22281">https://doi.org/10.1002/chir.22281</a>	Enantioselective Surface Plasmon Resonance Sensor Based on C <sub>60</sub> Fullerene-Glutathione Self-Assembled Monolayer (SAM)	R.I. Stefan-van Staden	1.164
191 Q1	J Electrochem Soc, 161(4), B45-B48, 2014 <a href="https://doi.org/10.1149/2.021404jes">https://doi.org/10.1149/2.021404jes</a>	Multimode sensors based on nanostructured materials for simultaneous screening of biological fluids for specific breast cancer and hepatitis B biomarkers	R.I. Stefan-van Staden, I. Moldoveanu	0.912
192 Q1	J Electrochem Soc, 161(4), B49-B54, 2014 <a href="https://doi.org/10.1149/2.034404jes">https://doi.org/10.1149/2.034404jes</a>	Evaluation of amperometric dot microsenors for the analysis of serotonin in urine samples	J.F. van Staden, R. Georgescu, R.I. Stefan-van Staden, I. Calinescu	0.456
193	Spectrochim. Acta Part A: Molecular and Biomolecular Spectroscopy, 128, 514-521, 2014 <a href="https://doi.org/10.1016/j.saa.2014.02.002">https://doi.org/10.1016/j.saa.2014.02.002</a>	Comparative study of three modified numerical spectrophotometric methods: An application on pharmaceutical ternary mixture of aspirin, atorvastatin and clopedogrel	R.M. Nejsem, M.M. Issa, R.I. Stefan-van Staden	0.4086
194	J Neurosci Meth, 229, 1-7, 2014 <a href="https://doi.org/10.1016/j.jneumeth.2014.03.008">https://doi.org/10.1016/j.jneumeth.2014.03.008</a>	Pattern recognition of neurotransmitters using multimode sensing	R.I. Stefan-van Staden, I. Moldoveanu, J.F. van Staden	0.464
195	Scientia Pharmaceutica, 82, 601-615, 2014	Difference between adjacent data point as a new method for the analysis of ternary mixtures of	M.M. Issa, R.M. Nejsem, A.M. Abu Shanab, R.I. Stefan-van Staden	-

		tartrazine, Sunset Yellow and Azorubine dyes		
196	Journal of Membrane and Separation Technology, 3(2), 86-90, 2014	Enantioanalysis of L-cysteine using enantioselective, potentiometric membrane electrodes	R.I. Stefan-van Staden, L. Holo	-
197	J Molec Recogn, 27(11), 653-658, 2014 <a href="https://doi.org/10.1002/jmr.2388">https://doi.org/10.1002/jmr.2388</a>	Molecular screening of HER-1 in whole blood samples	I. Moldoveanu, C. Stanciu-Gavan, R.I. Stefan-van Staden	0.199
198 Q1	J. Electrochem.Soc., 161(9), B167-B170, 2014 <a href="https://doi.org/10.1149/2.0011409jes">https://doi.org/10.1149/2.0011409jes</a>	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	0.456
199	Sensing and Biosensing Research, 1, 1-7, 2014 <a href="https://doi.org/10.1016/j.sbsr.2014.05.001">https://doi.org/10.1016/j.sbsr.2014.05.001</a>	Challenges in enantioanalysis of fucose using stochastic and potentiometric microsensors	Moldoveanu, R.I. Stefan-van Staden, C.P. Kapnissi-Christodoulou, J.F. van Staden, H.Y. Aboul-Enein	-
200	RSC Advances, 4(50), 26383-26388, 2014 <a href="https://doi.org/10.1039/C4RA03804E">https://doi.org/10.1039/C4RA03804E</a>	Screening tools for neuron specific enolase	R.I. Stefan-van Staden, I.R. Comnea, J.F. van Staden, C. Stanciu Gavan	0.31225
201	Analytical Chemistry Research, 1, 1-7, 2014 <a href="https://doi.org/10.1016/j.an.cr.2014.06.001">https://doi.org/10.1016/j.an.cr.2014.06.001</a>	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	-
202	Scientific Reports 4, 5579, 2014 <a href="https://doi.org/10.1038/srep05579">https://doi.org/10.1038/srep05579</a>	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	0.459
203	Buletinul Societatii de Chimie, XIX(2), 22-28, 2014	Monocrystalline Diamond Paste Based Sensors and Microsensors	R.I. Stefan-van Staden	-

204	RSC Advances, 4(97), 54140 - 54143, 2014 <a href="https://doi.org/10.1039/C4RA08987A">https://doi.org/10.1039/C4RA08987A</a>	Engineered Nanoporous Gold Microspheres for Stochastic Sensing	R.I. Stefan-van Staden, I. Moldoveanu, C. Surdu-Bob, C Stanciu- Gavan	0.31225
205 Q1	Crit.Rev.Anal.Chem., 45(1), 2-31, 2015 <a href="https://doi.org/10.1080/10408347.2013.866035">https://doi.org/10.1080/10408347.2013.866035</a>	Immunosensors in clinical and environmental analysis	R.I. Stefan-van Staden, R.G. Bokretsion, J.F. van Staden H.Y. Aboul- Enein	0.408
206	Electrochem.Comm., 51, 98-102, 2015 <a href="https://doi.org/10.1016/j.elecom.2014.12.010">https://doi.org/10.1016/j.elecom.2014.12.010</a>	New Stochastic Microsensors Based on Oleamides	C. Cioates Negut, R.I. Stefan-van Staden, I. Moldoveanu, E.M. Ungureanu, C. Stanciu- Gavan	0.2844
207	J Molec Recogn, 28(1), 10-19, 2015 <a href="https://doi.org/10.1002/jmr.2408">https://doi.org/10.1002/jmr.2408</a>	Multimode sensors as new tools for molecular recognition of testosterone, dihydrotestosterone and estradiol in children's saliva	L.A. Gugoasa, R.I. Stefan-van Staden, B. Calenic, J. Legler	0.14925
208	Journal of Enzyme Inhibition and Medicinal Chemistry, 30(2), 283-285, 2015 <a href="https://doi.org/10.3109/14756366.2014.915397">https://doi.org/10.3109/14756366.2014.915397</a>	Pattern recognition of HER-1 in biological fluids using stochastic sensing	R.I. Stefan-van Staden, I. Moldoveanu, C. Stanciu-Gavan	0.3943
209	J Molec Recogn, 28(2), 103-107, 2015 <a href="https://doi.org/10.1002/jmr.2433">https://doi.org/10.1002/jmr.2433</a>	Pattern recognition of neuron specific enolase and carcinoembryonic antigen in whole blood samples	R.I. Stefan-van Staden, I.R. Comnea, C.C. Surdu-Bob, C. Stanciu- Gavan	0.14925
210	Rev Roum Chim, 60(5-6), 447-451, 2015	Platform based on microsensors used for the screening of HER-1 in peritoneal fluid	I. Moldoveanu, R.I. Stefan-van Staden, J.F. van Staden, C. Stanciu- Gavan, C. Savlovski	-
211	Current Drug Therapy, 9, 250-255, 2015	Design of potentiometric sensors based on Interaction of cyclodextrins with the enantiomer of interest.	R.I. Stefan-van Staden, R.G. Bokretsion, J.F. van Staden, H.Y. Aboul- Enein	0.02

212	Rev Roum Chim, 60(5-6), 461-466, 2015	Detection of folic acid from orange juice using amperometric dot microsenors based on graphite and graphene	R. Georgescu, J.F. van Staden, R.I. Stefan-van Staden, C. Boscornea	-
213	J Porph Phthal, 19(5), 679-687, 2015 <a href="https://doi.org/10.1142/S1088424615500066">https://doi.org/10.1142/S1088424615500066</a>	Evaluation of Amperometric Dot Microsensors for the Analysis of Folic Acid in Pharmaceutical Tablets and Urine Samples	R. Georgescu, J.F. van Staden, R.I. Stefan-van Staden, C. Boscornea	0.1145
214	Medical Hypothesis, 84(3), 252-257, 2015 <a href="https://doi.org/10.1016/j.mehy.2015.01.006">https://doi.org/10.1016/j.mehy.2015.01.006</a>	A new hypothesis of aging	AG Diaconeasa, M Rachita, R.I. Stefan-van Staden	0.224
215	Spectrochim Acta Part A, 142, 204-209, 2015 <a href="https://doi.org/10.1016/j.saa.2015.01.064">https://doi.org/10.1016/j.saa.2015.01.064</a>	New approach application of data transformation in mean centering of ratio spectra method	M.M. Issa, R.M. Nejem, RI Stefan-van Staden, H.Y. Aboul-Enein	0.3065
216	Electroanalysis 27(8), 1842-1846, 2015 <a href="https://doi.org/10.1002/elan.201500081">https://doi.org/10.1002/elan.201500081</a>	Chitosan based diamond paste stochastic sensors modified with gold nanoparticles detect hepatitis C core antigen	I. Moldoveanu, R.I. Stefan-van Staden, J.F. van Staden	0.264
217 Q1	J Electrochem Soc, 162(7), H477-H480, 2015 <a href="https://doi.org/10.1149/2.0671507jes">https://doi.org/10.1149/2.0671507jes</a>	Enantioselective, potentiometric membrane electrodes based on C70 fullerenes for the enantioanalysis of S-Clenbuterol in serum	R.I. Stefan-van Staden	1.824
218	RSC Advances, 5(56), 45545-45550, 2015 <a href="https://doi.org/10.1039/C5RA04777C">https://doi.org/10.1039/C5RA04777C</a>	Novel Textile Material Based Disposable Sensors for Biomedical Analysis	R.I. Stefan-van Staden, L.A. Gugoasa, M. Badulescu, C. Surdu-Bob	0.31225
219	RSC Advances, 5(70), 57164-57170, 2015 <a href="https://doi.org/10.1039/C5RA06030C">https://doi.org/10.1039/C5RA06030C</a>	Development and validation of kinetic and atomic absorption spectrophotometric methods for the determination of salbutamol sulfate	R.M. Nejem, M.M. Issa, A.A. Saleh, A.A. Shanab, R.I. Stefan van Staden, H.Y. Aboul-Enein	0.20816

220 Q1	J.Electrochem.Soc., 162(9), B245-B247, 2015 <a href="https://doi.org/10.1149/2.0931509jes">https://doi.org/10.1149/2.0931509jes</a>	A new graphene stochastic sensor for the molecular screening of TNF- $\alpha$	IR Comnea-Stancu, RI Stefan-van Staden, AR Biris	0.608
221 Q1	Nanoscale, 7(36), 14848-14853, 2015 (cu coperta) <a href="https://doi.org/10.1039/C5NR03064A">https://doi.org/10.1039/C5NR03064A</a>	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, C. Socaci, A.R. Biris	0.690
222	ECS J Solid State Sci Technol, 4(10), S3006-S3010, 2015 <a href="https://doi.org/10.1149/2.0021510jss">https://doi.org/10.1149/2.0021510jss</a>	Multimode microsensors based on carbon matrices used for the assay of IL-6 in whole blood samples	L.A. Gugoasa, R.I. Stefan-van Staden	0.3395
223	ESC J Solide State Science & Technol., 4(10), S3067-S3070, 2015 <a href="https://doi.org/10.1149/2.0181510jss">https://doi.org/10.1149/2.0181510jss</a>	Pattern recognition of HER-2 in whole blood samples using stochastic microsensors	I. Moldoveanu, R.I. Stefan-van Staden	0.3395
224	RSC Advances, 5(81), 66185-66191, 2015 <a href="https://doi.org/10.1039/C5RA13054A">https://doi.org/10.1039/C5RA13054A</a>	New nanocomposites-graphene pastes based stochastic microsensors	R.I. Stefan-van Staden, L.A. Gugoasa, C.A. Socaci, A.R. Biris	0.31225
225	Microelectronic Engineering, 148, 64-69, 2015 <a href="https://doi.org/10.1016/j.mee.2015.08.007">https://doi.org/10.1016/j.mee.2015.08.007</a>	Fast screening of biological fluids for cytokines and adipokines using stochastic sensing	L.A. Gugoasa, R.I. Stefan-van Staden, A. Dima, C.A. Visan, A. Streinu-Cercel, C. Socaci, A.R. Biris, B. Calenic	0.113
226 Q1	Nanoscale, 7(38), 15689-15694, 2015 <a href="https://doi.org/10.1039/C5NR04476F">https://doi.org/10.1039/C5NR04476F</a>	Nanostructured materials detect epidermal growth factor receptor, neuron specific enolase and carcinoembryonic antigen	RI Stefan-van Staden, I.R. Comnea-Stancu, C.C. Surdu-Bob, M Badulescu	0.690
227	Chirality, 27(12), 973-978, 2015	Fast screening test of whole blood samples and pharmaceutical	G Mitrofan, RI Stefan-van Staden, IR Comnea-	0.16628

	<a href="https://doi.org/10.1002/chi.r.22537">https://doi.org/10.1002/chi.r.22537</a>	compounds for enantio recognition of free L-T3, L-T4, and D-T4	Stancu, JF van Staden, G Bazylak, C Kapnissi-Christodoulou, HY Aboul-Enein	
228	RSC Adv, 5(92), 75451-75457, 2015 <a href="https://doi.org/10.1039/C5RA14635F">https://doi.org/10.1039/C5RA14635F</a>	Ionic Liquids for the Molecular Enantio recognition of free L-T3, L-T4 and D-T4	RI Stefan-van Staden, G Mitrofan, IR Comnea-Stancu, JF van Staden, C Kapnissi-Christodoulou, HY Aboul-Enein	0.20816
229 Q1	J Electrochem Soc, 162(14), B360-B362, 2015 <a href="https://doi.org/10.1149/2.0831514jes">https://doi.org/10.1149/2.0831514jes</a>	Carbon modified paper based disposable sensors	R.I. Stefan-van Staden, I. Moldoveanu, C. Surdu-Bob, M. Badulescu, J.F. van Staden	0.3648
230 Q1	J Electrochem Soc, 162(14), B351-B353, 2015 <a href="https://doi.org/10.1149/2.0741514jes">https://doi.org/10.1149/2.0741514jes</a>	Diamond Paste-Based Stochastic Sensor for Screening of Children's Cerebrospinal Fluid	R.I. Stefan-van Staden, I.R. Comnea-Stancu, C.A. Visan, A. Streinu-Cercel	0.456
231	Anal.Lett., 49(3), 335-341, 2016 <a href="https://doi.org/10.1080/00032719.2014.978502">https://doi.org/10.1080/00032719.2014.978502</a>	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.F. van Staden, J. Legler	0.0858
232	Microsystem Technologies, 22(1), 11-16, 2016 <a href="https://doi.org/10.1007/s00542-015-2628-y">https://doi.org/10.1007/s00542-015-2628-y</a>	Pattern recognition of adipokines in whole blood samples using stochastic sensing	L.A. Gugoasa, R.I. Stefan-van Staden, O.C. Rusu	0.199
233	Microsystem Technologies, 22(1), 25-29, 2016 <a href="https://doi.org/10.1007/s00542-015-2635-z">https://doi.org/10.1007/s00542-015-2635-z</a>	Stochastic sensors based on maltodextrins for screening of whole blood for neuron specific enolase, carcinoembryonic antigen and epidermal growth factor receptor	I.R. Comnea-Stancu, R.I. Stefan-van Staden, J.F. van Staden, C. Stanciu-Gavan	0.14925
234 Q1	J Electrochem Soc, 163(6), B252-B255, 2016	New stochastic sensors for the assay of biogenic amines in wines	F. Harja, R.I. Stefan-van Staden, I.R. Comnea-	0.3648



	<a href="https://doi.org/10.1149/2.141606jes">https://doi.org/10.1149/2.141606jes</a>		Stancu, C. Cioates Negut, E.M. Ungureanu	
235	J Pharm Biomed Anal, 128, 280-285, 2016 <a href="https://doi.org/10.1016/j.jpba.2016.05.040">https://doi.org/10.1016/j.jpba.2016.05.040</a>	Stochastic sensors designed for assessment of biomarkers specific to obesity	C Cioates Negut, RI Stefan-van Staden, EM Ungureanu, DI Udeanu	0.27075
236 Q1	J Electrochem Soc, 163(10), B563-566, 2016 <a href="https://doi.org/10.1149/2.1001610jes">https://doi.org/10.1149/2.1001610jes</a>	New Azulene Based Stochastic Microsensor	GL Arnold, RI Stefan-van Staden, I Moldoveanu-Ionita, EM Ungureanu, LR Popescu-Mandoc	0.3648
237	J Pharm Biomed Anal, 135, 16-19, 2017 <a href="https://doi.org/10.1016/j.jpba.2016.12.009">https://doi.org/10.1016/j.jpba.2016.12.009</a>	Fast Screening of Tissue Samples for Glycogen	RI Stefan-van Staden, AG Diaconeasa, C Stanciu Gavan	0.361
238	Current Pharmaceutical Analysis, 13(2), 154-161, 2017 <a href="https://doi.org/10.2174/1573412913666161107153037">https://doi.org/10.2174/1573412913666161107153037</a>	Difference between Adjacent Data Point as a New Method for the Analysis of Ternary Mixtures of Tartrazine, Sunset Yellow and Azorubine Dyes	R.M. Nejem, M.M. Issa, A.M. Abu Shanab, R.I. Stefan-van Staden, H.Y. Aboul-Enein	0.024
239	Microsystem Technology, 23,1141–1145, 2017 <a href="https://doi.org/10.1007/s00542-016-3039-4">https://doi.org/10.1007/s00542-016-3039-4</a>	Pattern recognition of Cu(II), Pb(II), Hg(II), and Cd(II) in waste waters	LR Mandoc (Popescu), I Moldoveanu, RI Stefan-van Staden, EM Ungureanu	0.14925
240 Q1	J Electrochem Soc,, 164(6), B267-B273, 2017 <a href="https://doi.org/10.1149/2.1621706jes">https://doi.org/10.1149/2.1621706jes</a>	Molecular screening of blood samples for the simultaneous detection of CEA, HER-1, NSE, CYFRA 21-1 using stochastic sensors	RI Stefan-van Staden, IR Comnea-Stancu, CC Surdu-Bob	0.608
241	RSC Advances, 7, 28419 - 28426, 2017 <a href="https://doi.org/10.1039/C7RA03842A">https://doi.org/10.1039/C7RA03842A</a>	Multimode microsensors based on Ag-TiO <sub>2</sub> -graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples	LA Gugoasa, AJM Al'Ogaidi, RI Stefan-van Staden, A El-Khatib, MC Rosu, S Pruneanu	0.208

242 Q1	J Electrochem Soc, 164(9), B443-B447, 2017 <a href="https://doi.org/10.1149/2.1191709jes">https://doi.org/10.1149/2.1191709jes</a>	Molecular recognition of colon cancer biomarkers: P53, KRAS and CEA in whole blood samples	LA Gugoasa, RI Stefan-van Staden, AJM Al'Ogaidi, C Stanciu-Gavan	0.456
243	Anal Bioanal Chem, 409(26), 6195-6203, 2017 <a href="https://doi.org/10.1007/s00216-017-0560-y">https://doi.org/10.1007/s00216-017-0560-y</a>	Phthalocyanine-BODIPY dye: synthesis, characterization, and utilization for pattern recognition of CYFRA 21-1 in whole blood samples	R.I. Stefan-van Staden, I.R. Comnea-Stancu, H. Yanik, M. Göksel, A. Alexandru, M. Durmuş	0.2393
244 Q1	J Electrochem Soc., 164(12), B502-B505, 2017 <a href="https://doi.org/10.1149/2.0661712jes">https://doi.org/10.1149/2.0661712jes</a>	Determination of p53 using graphite based amperometric sensors	R.I. Stefan-van Staden, A.J.M. AL-Ogaidi, L.A. Gugoasa	0.608
245	RSC Adv., 7, 43567-43573, 2017 <a href="https://doi.org/10.1039/C7RA08724A">https://doi.org/10.1039/C7RA08724A</a>	Fast screening of whole blood samples for early detection and monitoring of thyroid diseases	RI Stefan-van Staden, G Mitrofan	0.6245
246 Q1	J Electrochem Soc, 164(12), B561-B566, 2017 <a href="https://doi.org/10.1149/2.1961712jes">https://doi.org/10.1149/2.1961712jes</a>	New nanostructured materials detect dopamine in biological fluids	RI Stefan-van Staden, LR Balahura, A Oprisanu-Vulpe, LA Gugoasa, JF van Staden, EM Ungureanu, C Socaci	0.2605
247 Q1	Sens Actuators B, 256, 665-673, 2018 <a href="https://doi.org/10.1016/j.snb.2017.09.205">https://doi.org/10.1016/j.snb.2017.09.205</a>	Graphene-porphyrin composite synthesis through graphite exfoliation: the electrochemical sensing of catechol	M Coroş, F Pogăcean, L Măgeruşan, MC Roşu, AS Porav, C Socaci, A Bende, RI Stefan-van Staden, S Pruneanu	0.2358
248	Anal. Bioanal. Chem., 410(1), 115-121, 2018 <a href="https://doi.org/10.1007/s00216-017-0698-7">https://doi.org/10.1007/s00216-017-0698-7</a>	Pattern recognition of 8-hydroxy-2'-deoxyguanosine in biological fluids	RI Stefan-van Staden, LR Balahura, LA Gugoasa, JF van Staden, HY Aboul-Enein, MC Rosu, S Pruneanu	0.2051
249	Anal. Lett., 51(12), 1927-1934, 2018	Disposable stochastic sensors for the simultaneous assay of	RI Stefan-van Staden, AG Diaconeasa, CC Surdu-Bob	0.1716



	<a href="https://doi.org/10.1080/00032719.2017.1396335">https://doi.org/10.1080/00032719.2017.1396335</a>	acetylcholine and dopamine in whole blood samples		
250	Current Medicinal Chemistry, 25(33), 4036-4049, 2018  <a href="https://doi.org/10.2174/0929867324666170724102602">https://doi.org/10.2174/0929867324666170724102602</a>	Advanced methods for analysis of testosterone	L.A. Gugoasa, R.I. Stefan-van Staden	0.654
251	Nanotechnology, 29, 095501 (9pp) 2018  <a href="https://doi.org/10.1088/1361-6528/aaa316">https://doi.org/10.1088/1361-6528/aaa316</a>	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode	F Pogacean, M Coros, L Magerusan, M Rosu, C Socaci, S Gergely, RI Stefan van Staden, M Moldovan, C Sarosi, S Pruneanu	0.117
252	EC Pulmonology and Respiratory Medicine, 7(3), 80-81, 2018  <a href="https://ecronicon.net/assets/ecprm/pdf/ECPRM-07-00171.pdf">https://ecronicon.net/assets/ecprm/pdf/ECPRM-07-00171.pdf</a>	Early detection of lung cancer using stochastic sensors– a screening test for life	RI Stefan-van Staden	-
253	Chirality, 30(5), 680-685, 2018  <a href="https://doi.org/10.1002/chir.22843">https://doi.org/10.1002/chir.22843</a>	Molecular enantiorecognition of L- and D-glucose in whole blood samples	RI Stefan-van Staden, G Mitrofan	0.582
254	Anal Lett, 51(17), 2820-2832, 2018  <a href="https://doi.org/10.1080/00032719.2018.1453516">https://doi.org/10.1080/00032719.2018.1453516</a>	Electrochemical determination of the KRAS genetic marker for colon cancer with modified graphete and graphene paste electrodes	AJ M AL-Ogaidi, LA Gugoasa, RI Stefan-van Staden, MC Rosu, C Socaci	0.103
255 Q1	J Electrochem Soc, 165(8), B3054-B3059, 2018  <a href="https://doi.org/10.1149/2.0101808jes">https://doi.org/10.1149/2.0101808jes</a>	Graphene/TiO <sub>2</sub> -Ag based composites used as sensitive electrode materials for amaranth electrochemical detection and degradation	MC Rosu, F Pogacean, M Coros, L Magerusan, M Moldovan, C Sarosi, RI Stefan-van Staden, S Pruneanu	0.228

256	Annals of Anatomy - Anatomischer Anzeiger, 219, 89-93, 2018 <a href="https://doi.org/10.1016/j.aanat.2018.02.012">https://doi.org/10.1016/j.aanat.2018.02.012</a>	Salivary biomarkers of inflammation in systemic lupus erythematosus	II Stanescu, B Calenic, A Dima, LA Gugoasa, E Balanescu, RI Stefan van Staden, C Baicus, DG Badita, M Greabu	0.1187
257 Q1	Anal Chem, 90(16), 9997-10000, 2018 <a href="https://doi.org/10.1021/acs.analchem.8b02467">https://doi.org/10.1021/acs.analchem.8b02467</a>	Molecular recognition of nitrites and nitrates in water samples using graphene-based stochastic microsensors	RI Stefan-van Staden, M Mincu, JF van Staden, LA Gugoasa	0.70125
258	Electroanalysis, 30(11), 2628-2634, 2018 <a href="https://doi.org/10.1002/elan.201800523">https://doi.org/10.1002/elan.201800523</a>	Pattern recognition of diabetes related biomarkers	RI Stefan-van Staden, G Mitrofan, C Ionescu-Targoviste	0.264
259	Anal Bioanal Chem, 410(29), 7723-7737, 2018 <a href="https://doi.org/10.1007/s00216-018-1386-y">https://doi.org/10.1007/s00216-018-1386-y</a>	Molecular Recognition of IL-8, IL-10, IL-12, and IL-15 in Biological Fluids Using Phthalocyanine based Stochastic Sensors	RI Stefan-van Staden, RM Ilie, LA Gugoasa, A Bilasco, CA Visan, A Streinu-Cercel	0.23933
260 Q1	J Electrochem Soc, 165(14), B659-B664, 2018 <a href="https://doi.org/10.1149/2.0361814jes">https://doi.org/10.1149/2.0361814jes</a>	Molecular recognition of pyruvic acid and L-lactate in early-diabetic stage	RI Stefan-van Staden, I Popa-Tudor, C Ionescu-Tirgoviste, RA Stoica	0.456
<b>Papers published between 2019 and 2024</b>				
261 Q1	Talanta, 196, 182-190, 2019 <a href="https://doi.org/10.1016/j.talanta.2018.12.051">https://doi.org/10.1016/j.talanta.2018.12.051</a>	Exfoliation of graphite rods via pulses of current for graphene synthesis: sensitive detection of 8-hydroxy-2'-deoxyguanosine	F Pogacean, M Coros, L Magerusan, V Mirel, A Turza, G Katona, RI Stefan-van Staden, S Pruneanu	0.213
262	PLOS ONE, 14(1): e0210288. <a href="https://doi.org/10.1371/journal.pone.0210288">https://doi.org/10.1371/journal.pone.0210288</a> , 2019	The salivary levels of leptin and interleukin-6 as potential inflammatory markers in children obesity	C. Pirsean, C. Neguț, R.I. Stefan-van Staden, C.E. Dinu-Pirvu, P. Armean, D. I. Udeanu	0.2558
263	J Immunoassay Immunochem., 40(1), 40-51, 2019	Advances in immunosensors for clinical applications	LR Balahura, RI Stefan-van Staden, JF van Staden, HY Aboul-Enein	-

	<a href="https://doi.org/10.1080/15321819.2018.1543704">https://doi.org/10.1080/15321819.2018.1543704</a>			
264	Anal Lett, 52(5), 803-812, 2019 <a href="https://doi.org/10.1080/00032719.2018.1496444">https://doi.org/10.1080/00032719.2018.1496444</a>	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	0.1287
265 Q1	J Electrochem Soc, 166(4), B183-B186, 2019 <a href="https://doi.org/10.1149/2.0201904jes">https://doi.org/10.1149/2.0201904jes</a>	Pattern recognition of p53 and KRAS in whole blood samples	RI Stefan-van Staden, RM Ilie, LA Gugoasa, C Stanciu-Gavan	0.456
266	Electroanalysis, 31(6), 1034-1039, 2019 <a href="https://doi.org/10.1002/elan.201900017">https://doi.org/10.1002/elan.201900017</a>	Molecular recognition of aflatoxin M1 in water and milk samples	M. Mincu, R.I. Stefan-van Staden, J.F. van Staden	0.264
267	New J Chem, 43(13), 5196-5201, 2019 <a href="https://doi.org/10.1039/C9NJ00588A">https://doi.org/10.1039/C9NJ00588A</a>	Pattern recognition of melatonin using stochastic sensors	RI Stefan-van Staden, A. Lungu - Moscalu, J.F. van Staden	0.3253
268	Microchem J, 147, 112-120, 2019 <a href="https://doi.org/10.1016/j.microc.2019.03.007">https://doi.org/10.1016/j.microc.2019.03.007</a>	Graphene-based materials produced by graphite electrochemical exfoliation in acidic solutions: Application to Sunset Yellow voltammetric detection	F Pogacean, M Coros, L Magerusan, V Mirel, S Gergely, G Katona, RI Stefan-van Staden, S Pruneanu	0.15875
269 Q1	J Electrochem Soc, 166(9), B3051-B3055, 2019 <a href="https://doi.org/10.1149/2.0111909jes">https://doi.org/10.1149/2.0111909jes</a>	Molecular Recognition of C-Reactive Protein, Adiponectin and Zn <sup>2+</sup> in Serum Samples	RI Stefan-van Staden, I Popa-Tudor	0.912
270	Electroanalysis, 31(7), 1342-1347, 2019	Electroanalysis of Bisphenols A, F, and Z Using Graphene Based Stochastic Microsensors	RI Stefan-van Staden, M Mincu, JF van Staden	0.264

	<a href="https://doi.org/10.1002/elan.201900136">https://doi.org/10.1002/elan.201900136</a>			
271 Q1	J Electrochem Soc, 166(9), B3109-B3115, 2019 <a href="https://doi.org/10.1149/2.0211909jes">https://doi.org/10.1149/2.0211909jes</a>	Molecular enantiorecognition of D- and L-glucose in urine and whole blood samples	R.I. Stefan-van Staden, I. Popa-Tudor, C. Ionescu-Tirgoviste, R.A. Stoica, L. Magerusan	0.3648
272 Q1	J Electrochem Soc, 166(12), B903-B907, 2019 <a href="https://doi.org/10.1149/2.0521912jes">https://doi.org/10.1149/2.0521912jes</a>	Nanostructured Materials Used for Pattern Recognition of Bisphenols in Waste Waters	RI Stefan-van Staden, A. Lungu - Moscalu, J.F. van Staden	0.608
273	Anal Lett, 52 (16), 2583–2606, 2019 <a href="https://doi.org/10.1080/00032719.2019.1620262">https://doi.org/10.1080/00032719.2019.1620262</a>	Electrochemical determination of bisphenol A in saliva by a novel three-dimensional (3D) printed Gold-reduced graphene oxide (rGO) composite paste electrode	LA Gugoasa, RI Stefan-van Staden, JF van Staden, M Coros, S Pruneanu	0.103
274	Sensors, 19, 4297, 2019 <a href="https://doi.org/10.3390/s19194297">https://doi.org/10.3390/s19194297</a>	Detection of 8-hydroxy-20-deoxyguanosine biomarker with a screen-printed electrode modified with graphene	C Varodi, F Pogacean, M Coros, MC Rosu, RI Stefan-van Staden, E Gal, L Barbu Tudoran, S Pruneanu, S Mirel	0.146
275	Electrochem Comm, 109, 106581, 2019 <a href="https://doi.org/10.1016/j.electcom.2019.106581">https://doi.org/10.1016/j.electcom.2019.106581</a>	Determination of $\beta$ -carotene in soft drinks using a stochastic sensor based on a graphene-porphyrin composite	RI Stefan-van Staden, A Moscalu-Lungu, JF van Staden	0.474
276	Journal of Porphyrins and Phthalocyanines, 23(11-12), 1365-1370, 2019 <a href="https://doi.org/10.1142/S1088424619501293">https://doi.org/10.1142/S1088424619501293</a>	Graphene based stochastic sensors for pattern recognition of gastric cancer biomarkers in biological fluids	RI Stefan-van Staden, RM Ilie-Mihai, F Pogacean, S Pruneanu	0.27075
277	Electroanalysis, 32(1), 178-184, 2020 <a href="https://doi.org/10.1002/elan.201900481">https://doi.org/10.1002/elan.201900481</a>	Pattern recognition of sweeteners in biological fluids, beverages, and ketchup using stochastic sensors	RI Stefan-van Staden, A Moscalu-Lungu, JF van Staden	0.264

278	Electroanalysis, 32(1), 7-10, 2020 <a href="https://doi.org/10.1002/elan.201900497">https://doi.org/10.1002/elan.201900497</a>	Pattern recognition of amino acids in wines	C. Cioates Negut, R.I. Stefan-van Staden, F. Harja, J.F. van Staden	0.198
279	Chirality, 32(2), 215-222, 2020 <a href="https://doi.org/10.1002/chir.23155">https://doi.org/10.1002/chir.23155</a>	Enantioanalysis of tryptophan in whole blood samples using stochastic sensors – a screening test for gastric cancer	RM Ilie-Mihai, RI Stefan-van Staden, L Magerusan, M Coros, S Pruneanu	0.1584
280 QI	J Electrochem Soc, 167(3), 037528, 2020 <a href="https://doi.org/10.1149/2.0282003JES">https://doi.org/10.1149/2.0282003JES</a>	Recent progress in the graphene-based electrochemical sensors and biosensors. A review.	M Coros, S Pruneanu, RI Stefan-van Staden	0.608
281 QI	Carbon, 158, 267-281, 2020 <a href="https://doi.org/10.1016/j.carbon.2019.12.011">https://doi.org/10.1016/j.carbon.2019.12.011</a>	Cytotoxicity mechanisms of nitrogen-doped graphene obtained by electrochemical exfoliation of graphite rods, on normal and tumor cells	I Baldea, D Olteanu, GA Filip, F Pogacean, M Coros, M Suciu, S C Tripon, M Cenariu, RI Stefan-van Staden, S Pruneanu	0.2613
282	J. Clin. Med., 9(1), 76, 2020 <a href="https://doi.org/10.3390/jcm9010076">https://doi.org/10.3390/jcm9010076</a>	A screening test for early diagnosis of microcellular bronchopulmonary cancer - Pilot study	CE Nistor, RI Stefan-van Staden, AV Dumitru, C Stanciu Gavan	0.3685
283	Electroanalysis, 32(5), 1060-1064, 2020 <a href="https://doi.org/10.1002/elan.201900688">https://doi.org/10.1002/elan.201900688</a>	Nanocarbon materials modified with a complex of protoporphyrin IX, recognized antibiotics in water samples	RI Stefan-van Staden, M Mincu	0.396
284	Anal Lett, 53(13), 2021-2033, 2020 <a href="https://doi.org/10.1080/00032719.2020.1728293">https://doi.org/10.1080/00032719.2020.1728293</a>	Stochastic microsensors for molecular recognition of IL-1 $\beta$ , IL-6, IL-12, and IL-17 in whole blood	RI Stefan-van Staden, I Popa-Tudor, C Ionescu-Targoviste, RA Stoica	0.12875
285	Anal Bioanal Chem, 412(13), 3199-3207, 2020	Enantioanalysis of glutamine - a key factor in establishing the metabolomics process in gastric cancer	RI Stefan-van Staden, RM Ilie-Mihai, L Magerusan, M Coros, S Pruneanu	0.2872

	<a href="https://doi.org/10.1007/s00216-020-02575-y">https://doi.org/10.1007/s00216-020-02575-y</a>			
286	Anal Lett., 53(16), 2545-2558, 2020  <a href="https://doi.org/10.1080/00032719.2020.1747480">https://doi.org/10.1080/00032719.2020.1747480</a>	Simultaneous determination of carcinoembryonic antigen (CEA), carbohydrate antigen 19-9 (CA19-9), and serum protein p53 in biological samples with protoporphyrin IX (PIX) used for recognition by stochastic microsensors	RI Stefan-van Staden, RM Ilie-Mihai, S Gurzu	0.1716
287	Anal Bioanal Chem, 412(17), 4135-4141, 2020  <a href="https://doi.org/10.1007/s00216-020-02646-0">https://doi.org/10.1007/s00216-020-02646-0</a>	Fast screening method for molecular recognition of islet amyloid polypeptide from whole blood samples collected from diabetic patients with disposable stochastic sensors obtained by nanolayer, and nanolayer by nanolayer deposition using cold plasma	RI Stefan-van Staden, I. Popa-Tudor, M. Badulescu, A. Anghel	0.359
288	Combinatorial Chemistry & High Throughput Screening, 23(10), 1080-1089, 2020  <a href="https://doi.org/10.2174/1386207323666200628111958">https://doi.org/10.2174/1386207323666200628111958</a>	Rhodamine B – as New Chromophore for the Determination of Melatonin in Biological, Food, and Pharmaceutical Samples	A Lungu-Moscalu, C Cioates - Negut, RI Stefan-van Staden, AA Bunaciu, JF van Staden	0.1192
289	Anal Bioanal Chem, 412(21), 5191–5202, 2020  <a href="https://doi.org/10.1007/s00216-020-02663-z">https://doi.org/10.1007/s00216-020-02663-z</a>	Myoglobin-silver reduced graphene oxide nanocomposite stochastic biosensor for the determination of luteinizing hormone and follicle-stimulating hormone from saliva samples	LA Gugoasa Dinu, RI Stefan-van Staden, FJ van Staden, M. Coros, SM Pruneanu	0.2872
290	Sensors, 20(8), 2420, 2020  <a href="https://doi.org/10.3390/s20082420">https://doi.org/10.3390/s20082420</a>	Fast screening of whole blood and tumor tissue for bladder cancer biomarkers using stochastic needle sensors	RI Stefan-van Staden, DC Gheorghe, V. Jinga, M. Geanta	0.3285



291	ECS Journal of Solid State Science and Technology, 9, 041015, 2020 <a href="https://doi.org/10.1149/2162-8777/ab902e">https://doi.org/10.1149/2162-8777/ab902e</a>	Dot microsensors based on zinc porphyrins and zinc phthalocyanines for the determination of indigo carmine	R.I. Stefan-van Staden, J.F. van Staden	0.3395
292	Multidisciplinary Cancer Investigations, 4(3), 25-30, 2020	The fast screening method of biological samples for early diagnosis of gastric cancer	RI Stefan-van Staden, RM Ilie-Mihai, S Gurzu	-
293	World Journal of Gastrointestinal Oncology, 12(7), 741-755, 2020 <a href="https://doi.org/10.4251/wjgo.v12.i7.741">https://doi.org/10.4251/wjgo.v12.i7.741</a>	Maspin subcellular expression of wild-type- and mutant TP53 gastric cancers	S Gurzu, I Jung, H Sugimura, RI Stefan-van Staden, H Yamada, H Natsume, Y Iwashita, R Szodorai, J Szederjesi	0.0753
294	ECS Journal of Solid State Science and Technology, 9, 051005, 2020 <a href="https://doi.org/10.1149/2162-8777/ab9a5d">https://doi.org/10.1149/2162-8777/ab9a5d</a>	Porphyrins – as active materials in the design of sensors. An overview.	C Cioates-Negut, RI Stefan-van Staden, JF van Staden	0.2263
295	ECS Journal of Solid State Science and Technology, 9, 051012, 2020 <a href="https://doi.org/10.1149/2162-8777/ab9dc8">https://doi.org/10.1149/2162-8777/ab9dc8</a>	Enzymatic and nonenzymatic (bio)sensors based on phthalocyanines. A minireview.	C Stefanov, JF van Staden, RI Stefan-van Staden	0.2263
296	Analytical Biochemistry, 605, 113839, 2020 <a href="https://doi.org/10.1016/j.ab.2020.113839">https://doi.org/10.1016/j.ab.2020.113839</a>	Stochastic microsensors used for the assessment of DNA damage in leukemia	RI Stefan-van Staden, LR Balahura, C Cioates-Negut, HY Aboul-Enein	0.3165
297	Sensors, 20, 3609, 2020 <a href="https://doi.org/10.3390/s20123609">https://doi.org/10.3390/s20123609</a>	Stone paper as a new substrate to fabricate flexible screen-printed electrodes for the electrochemical detection of dopamine	C Varodi, F Pogăcean, M Gheorghe, V Mirel, M Coros, L Barbu Tudoran, RI Stefan-van Staden, SM Pruneanu	0.164

298	Nanomaterials, 10(8), 1528, 2020 <a href="https://doi.org/10.3390/nano10081528">https://doi.org/10.3390/nano10081528</a>	Disposable Stochastic Sensors Based on Nanolayer Deposition(s) of Silver, and AgC Composite on Plastic for the Assay of $\alpha$ -Amylase in Whole Blood and Saliva	RI Stefan-van Staden, A. Moscalu-Lungu, M. Badulescu	0.519
299	New J Chem, 44(46), 20203-20211, 2020 <a href="https://doi.org/10.1039/D0NJ03847D">https://doi.org/10.1039/D0NJ03847D</a>	Needle stochastic sensors for on-site fast recognition and quantification of biomarkers for gastric cancer in biological samples	RI Stefan-van Staden, RM Ilie-Mihai, F Pogacean, SM Pruneanu	0.244
300	Journal of Oncology, Article ID 8860174, 10 pages, 2020 <a href="https://doi.org/10.1155/2020/8860174">https://doi.org/10.1155/2020/8860174</a>	Comparison study of HER-2 status in gastric carcinoma samples, using two commercial antibodies	CB Satala, I Jung, RI Stefan van Staden, Z Kovacs, C Molnar, T Bara, Z Fulop, S Gurzu	-
301	Chemosensors, 8(4), 112, 2020 <a href="https://doim.org/10.3390/chemosensors8040112">https://doim.org/10.3390/chemosensors8040112</a>	Sensing and interaction of His-tagged CA19-9 antigen with graphene-modified electrodes	M Mic, C Varodi, F Pogacean, C Socaci, M Coros, RI Stefan-van Staden, S Pruneanu	0.1635
302	Journal of Gastrointestinal & Digestive System, 10, 7, 2020	Validation of a screening test, based on simultaneous detection of CEA, CA19-9 and p53, for fast diagnosis of gastric cancer. A pilot study.	RI Stefan-van Staden, RM Ilie-Mihai, DC Gheorghe, S Gurzu	-
303	Anal Lett, 54(4), 729-741, 2020 <a href="https://doi.org/10.1080/00032719.2020.1780249">https://doi.org/10.1080/00032719.2020.1780249</a>	Electrochemical determination of 8-nitroguanine and 8-hydroxy-2'-deoxyguanosine in urine and whole blood using stochastic sensors	RI Stefan-van Staden, LR Balahura, HY Aboul-Enein	0.1716
304	Chirality, 33(1), 51-58, 2021 <a href="https://doi.org/10.1002/chir.23288">https://doi.org/10.1002/chir.23288</a>	Chiral single-walled carbon nanotubes – as chiral selectors in multimode enantioselective sensors	RI Stefan-van Staden, IR Comnea	0.582



305	Medicine, 57(25), 57010025, 2021 <a href="https://doi.org/10.3390/medicina57010025">https://doi.org/10.3390/medicina57010025</a>	No Association between 25-Hydroxyvitamin D and Insulin Resistance or Thyroid Hormone Concentrations in a Romanian Observational Study.	RA Stoica, C Guja, A Pantea-Stoian, RI Stefan-van Staden, I Popa-Tudor, SD Stefan, R Ancuceanu, C Serafinceanu, C Ionescu Tirgoviste,	0.0766
306	Electroanalysis, 33(1), 6-10, 2021 <a href="https://doi.org/10.1002/elan.202060118">https://doi.org/10.1002/elan.202060118</a>	Electroanalysis of interleukins 1 $\beta$ , 6, and 12 in biological samples using a needle stochastic sensor based on nanodiamond paste	RM Ilie-Mihai, SS Gheorghe, RI Stefan-van Staden, A Bratei	0.198
307 Q1	J Electrochem Soc, 168(3), 037509, 2021 <a href="https://doi.org/10.1149/1945-7111/abec92">https://doi.org/10.1149/1945-7111/abec92</a>	Sulphur Doped Graphenes – as New Materials for the Design of 3D-Needle Stochastic Sensors	RM Ilie-Mihai, RI Stefan-van Staden, A Lungu-Moscalu, S Gurzu, F Pogacean, SM Pruneanu	0.304
308 Q1	J Electrochem Soc, 168(3), 037515, 2021 <a href="https://doi.org/10.1149/1945-7111/abeea2">https://doi.org/10.1149/1945-7111/abeea2</a>	Disposable Stochastic Sensor Based on Deposition of a Nanolayer of Silver on Silk for Molecular Recognition of Specific Biomarkers	RI Stefan-van Staden, SS Gheorghe, RM Ilie-Mihai, M Badulescu	0.456
309	Anal Lett, 54(18), 2921-2928, 2021 <a href="https://doi.org/10.1080/00032719.2021.1904409">https://doi.org/10.1080/00032719.2021.1904409</a>	Characterization of low-cost, robust, graphene-based amperometric dot microsensors for the determination of dopamine	JF van Staden, RI Stefan-van Staden	0.2575
310	Anal Bioanal Chem, 413(13), 3487-3492, 2021 <a href="https://doi.org/10.1007/s00216-021-03295-7">https://doi.org/10.1007/s00216-021-03295-7</a>	3D Stochastic microsensors for molecular recognition and determination of heregulin- $\alpha$ in biological samples	RI Stefan-van Staden, C Cioates Negut, SS Gheorghe, A. Ciorita	0.359
311 Q1	J Electrochem Soc., 168(4), 047504, 2021 <a href="https://doi.org/10.1149/1945-7111/abf260">https://doi.org/10.1149/1945-7111/abf260</a>	Review—Trends in recent developments in electrochemical sensors for the determination of polycyclic aromatic hydrocarbons from water resources and catchment areas	IR Stancu, JF van Staden, RI Stefan-van Staden	0.608

312	Revista de Chimie, 72(2), 147-155, 2021 <a href="https://doi.org/10.37358/R.C.21.2.8427">https://doi.org/10.37358/R.C.21.2.8427</a>	Some people and places important in the history of analytical chemistry in Romania	RI Stefan-van Staden, V. David, D. Thorburn Burns	-
313	UPB Sci. Bull., 83(4), 145-150, 2021 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full4a6_965249.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full4a6_965249.pdf</a>	Determination of dopamine in whole blood samples using a new electrochemical sensor based on graphene	SS Gheorghe, RM Ilie-Mihai, RI Stefan-van Staden	-
314	Electroanalysis, 33(7), 1778-1788, 2021 <a href="https://doi.org/10.1002/elan.202100132">https://doi.org/10.1002/elan.202100132</a>	Application of a tetraamino cobalt(II) phthalocyanine modified screen printed carbon electrode for the sensitive electrochemical determination of L-dopa in pharmaceutical and biological samples	R State, JF van Staden, C Stefanov, RI Stefan-van Staden	0.198
315 Q1	J Electrochem Soc., 168 (6), 067517, 2021 <a href="https://doi.org/10.1149/1945-7111/ac0a22">https://doi.org/10.1149/1945-7111/ac0a22</a>	Review—Recent trends in supramolecular recognition of dopamine, tyrosine, and tryptophan, using electrochemical sensors	C Cioates Negut, RI Stefan-van Staden	0.912
316	Chemosensors, 9(6), 146, 2021. <a href="https://doi.org/10.3390/chemosensors9060146">https://doi.org/10.3390/chemosensors9060146</a>	Nitrogen, sulfur co-doped graphene as efficient electrode material for L-cysteine detection	C Varodi, F Pogăcean, A Cioriță, O Pană, B Cozar, T Radu, M Coroș, RI Stefan-van Staden, S Pruneanu	0.1272
317	RSC Adv., 11, 23301-23309, 2021 <a href="https://doi.org/10.1039/d1ra02066h">https://doi.org/10.1039/d1ra02066h</a>	Stochastic biosensors based on N and S-doped graphene for the enantioanalysis of aspartic acid in biological samples	RI Stefan-van Staden, DC Gheorghe, RM Ilie-Mihai, L Barbu-Tudoran, SM Pruneanu	0.2498
318	Experimental Therapeutics Medicine, 22, 1033, 2021 <a href="https://doi.org/10.3892/etm.2021.10465">https://doi.org/10.3892/etm.2021.10465</a>	Subclinical hypothyroidism has no association with insulin resistance indices in adult females: A case-control study	RA Stoica, R Ancuceanu, SD Stefan, A Pantea Stoian, C Guja, RI Stefan-van Staden, I Popa-Tudor, C Serafinceanu, C Ionescu-Tirgoviste	-

319	J Pharm Biomed Anal, 205, 114292, 2021 <a href="https://doi.org/10.1016/j.jpba.2021.114292">https://doi.org/10.1016/j.jpba.2021.114292</a>	Simultaneous determination of levodopa and dopamine from biological samples using 3D printed stochastic microsensors	C Cioates Negut, Sorin Sebastian Gheorghe, RI Stefan-van Staden, JF van Staden	0.27075
320	Life, 11, 894, 2021 <a href="https://doi.org/10.3390/life11090894">https://doi.org/10.3390/life11090894</a>	Fast screening method based on disposable stochastic sensor for sensitive detection of heregulin- $\alpha$ in biological samples	RI Stefan-van Staden, SS Gheorghe, C Cioates Negut, M Badulescu	0.2765
321	Rev de Chimie, 72(4), 22-34, 2021 <a href="https://doi.org/10.37358/R.C.21.4.8453">https://doi.org/10.37358/R.C.21.4.8453</a>	Fast screening method of biological samples based on needle stochastic sensors for early detection of gastric cancer	RM Ilie-Mihai, DC Gheorghe, RI Stefan-van Staden, A Lungu-Moscalu, SM Pruneanu, JF van Staden	-
322	Sensors, 21, 6630, 2021 <a href="https://doi.org/10.3390/s21196630">https://doi.org/10.3390/s21196630</a>	Hydrothermal synthesis of nitrogen, boron co-doped graphene with enhanced electro-catalytic activity for cymoxanil detection	C Varodi, F Pogăcean, M Coros, L Magerusan, RI Stefan van Staden, S Pruneanu	0.219
323	Marine Drugs, 20(1), 25, 2022 <a href="https://doi.org/10.3390/md20010025">https://doi.org/10.3390/md20010025</a>	Mussel Shells - a Valuable Calcium Resource for Pharmaceutical Industry	M Mititelu, G Stanciu, D Drăgănescu, AC Ioniță, SM Neacșu, M Dinu, RI Stefan-van Staden, E Moroșan	0.15575
324	Anal Bioanal Chem, 414(5), 1797–1807, 2022 <a href="https://doi.org/10.1007/s00216-021-03807-5">https://doi.org/10.1007/s00216-021-03807-5</a>	Disposable stochastic sensors obtained using nanolayer deposition of copper, graphene, and copper-graphene composite on silk, for biomedical analysis	C Cioates Negut, RI Stefan-van Staden, M Badulescu, B Bită	0.359
325 Q1	J Electrochem Soc., 169, 017509, 2022 <a href="https://doi.org/10.1149/1945-7111/ac4a4c">https://doi.org/10.1149/1945-7111/ac4a4c</a>	Review. Recent trends on the electrochemical sensors used for the determination of tartrazine and Sunset Yellow FCF from food and beverage products	R Georgescu State, JF van Staden, RI Stefan-van Staden	0.608
326	Anal.Lett, 55(1), 85-92, 2022 <a href="https://doi.org/10.1080/00032719.2021.1917592">https://doi.org/10.1080/00032719.2021.1917592</a>	Enantioanalysis of aspartic acid using 3D stochastic sensors	IM Bogea, RI Stefan-van Staden, DC Gheorghe, RM Ilie-Mihai	0.12875

327	Nanomaterials, 12(3), 460, 2022 <a href="https://doi.org/10.3390/nano12030460">https://doi.org/10.3390/nano12030460</a>	Stochastic microsensors based on carbon nanotubes decorated with Cu and Au nanoparticles, for molecular recognition of isocitrate dehydrogenases 1 and 2 in biological samples	RI Stefan-van Staden, C Cioates Negut, SS Gheorghe, P Sfirloaga	0.38925
328 Q1	Microchimica Acta, 189, 101, 2022 <a href="https://doi.org/10.1007/s00604-022-05214-8">https://doi.org/10.1007/s00604-022-05214-8</a>	2D Disposable Stochastic Sensors for Molecular Recognition and Quantification of Maspin in Biological Samples	RI Stefan-van Staden, RM Ilie-Mihai, DC Gheorghe, IM Bogea, M Badulescu	0.3182
329	Anal. Lett., 55(13), 2124-2131, 2022 <a href="https://doi.org/10.1080/00032719.2022.2047999">https://doi.org/10.1080/00032719.2022.2047999</a>	Stochastic Sensors for the Enantioselective Determination of Serine in Blood for the Early Diagnosis of Breast Cancer	OR Musat, RI Stefan-van Staden	0.2575
330	Anal Bioanal Chem, 414(12), 3667-3673, 2022 <a href="https://doi.org/10.1007/s00216-022-04007-5">https://doi.org/10.1007/s00216-022-04007-5</a>	Stochastic microsensors based on modified graphene for pattern recognition of maspin in biological samples	RI Stefan-van Staden, IM Bogea, RM Ilie-Mihai, DC Gheorghe, M Coros, SM Pruneanu	0.2393
331 Q1	J Electrochem Soc, 169, 037527, 2022 <a href="https://doi.org/10.1149/1945-7111/ac5cee">https://doi.org/10.1149/1945-7111/ac5cee</a>	Facile detection of naphthalene with a 5,10,15,20-tetrakis(4-methoxyphenyl)-21H,23H-porphine nickel (II)/N-(1-Naphthyl) ethylenediamine dihydrochloride renewable graphene oxide paste electrode	IR Comnea-Stancu, JF van Staden, RI Stefan-van Staden	0.608
332	Revista de Chimie, 73(2), 1-16, 2022 <a href="https://doi.org/10.37358/R.C.22.2.8515">https://doi.org/10.37358/R.C.22.2.8515</a>	Recent Electrochemical Methods Proposed for the Detection of Hepatitis C Virus. A Minireview	RM Ilie-Mihai, R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein	-
333 Q1	J Electrochem Soc., 169 (3), 037518, 2022 <a href="https://doi.org/10.1149/1945-7111/ac5cea">https://doi.org/10.1149/1945-7111/ac5cea</a>	Review-Progress in electroanalysis of p53, CEA and CA19-9. A minireview.	RM Ilie-Mihai, RI Stefan-van Staden, JF van Staden	0.608
334	J Pharm Biomed Anal, 214, 114725, 2022	Fast screening method for early diagnostic of gastric cancer based	RM Ilie-Mihai, DC Gheorghe, RI Stefan-van	0.2166

	<a href="https://doi.org/10.1016/j.jpba.2022.114725">https://doi.org/10.1016/j.jpba.2022.114725</a>	on utilization of a chitosan – S-doped graphene - based needle stochastic sensors	Staden, A Lungu-Moscalu, JF van Staden	
335	ECS Sensors Plus, 1, 011603, 2022 <a href="https://doi.org/10.1149/2754-2726/ac5ddd">https://doi.org/10.1149/2754-2726/ac5ddd</a>	Challenges in Biomedical Analysis - From Classical Sensors to Stochastic Sensors	RI Stefan-van Staden	-
336	J Oncology, Article ID 1788004, 10 pages, 2022 <a href="https://doi.org/10.1155/2022/1788004">https://doi.org/10.1155/2022/1788004</a>	In-House Validated Map of Lymph Node Stations in a Prospective Cohort of Colorectal Cancer: A Tool for a Better Preoperative Staging	P Simu, I Jung, L Baniias, ZZ Fulop, T Bara, I Simu, S Andone, RI Stefan-van Staden, CB Satala, I Halmaciu, S Gurzu	-
337	J.Pharm.Biomed.Anal., 215, 114758, 2022 <a href="https://doi.org/10.1016/j.jpba.2022.114758">https://doi.org/10.1016/j.jpba.2022.114758</a>	Disposable stochastic sensors for fast analysis of ibuprofen, ketoprofen, and flurbiprofen in their topical pharmaceutical formulations	BM Țuchiu, RI Stefan-van Staden, M Bădulescu, JF van Staden	0.27075
- 338	Journal of Clinical and Translational Endocrinology, 28, 100299, 2022 <a href="https://doi.org/10.1016/j.jcte.2022.100299">https://doi.org/10.1016/j.jcte.2022.100299</a>	Interleukin-8, CXCL10, CXCL11 and their role in insulin resistance in adult females with subclinical hypothyroidism and prediabetes	RA Stoica, N Drăgana, R Ancuceanu, OI Geicu, C Guja, A Pantea-Stoian, DC Gheorghe, RI Stefan-van Staden, C Serafinceanu, A Costache, C Ionescu-Tîrgoviște	-
339	Anal. Bioanal.Chem., 414(22), 6521–6530, 2022 <a href="https://doi.org/10.1007/s00216-022-04209-x">https://doi.org/10.1007/s00216-022-04209-x</a>	NS Decorated Graphenes Modified with 2,3,7,8,12,13,17,18-Octaethyl-21H,23H-Porphine Manganese (III) Chloride Based 3D Needle Stochastic Sensors for Enantioanalysis of Arginine - a Key Factor in the Metabolomics and Early Detection of Gastric Cancer	RI Stefan-van Staden, MI Bogeia, RM Ilie-Mihai, DC Gheorghe, HY Aboul-Enein, M Coros, SM Pruneanu	0.205

340	Sci Bull UPB, 84(4), 139-148, 2022 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullec1_848745.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullec1_848745.pdf</a>	Determination of D-serine from whole blood samples using an electrochemical sensor based on zinc (II)-5(4-carboxylphenyl)-10,15,20-tris(4phenoxyphenyl) porphyrine	OR Musat, RM Ilie-Mihai, RI Stefan-van Staden	-
341	Sci Bull UPB, 84(3), 121-130, 2022 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullad2_503158.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullad2_503158.pdf</a>	Determination of p53 from whole blood samples using an electrochemical sensor based on graphene decorated with N and S	IM Boga, RM Ilie-Mihai, RI Stefan-van Staden	-
342	Anal Bioanal Chem, 414(23), 6813–6824, 2022 <a href="https://doi.org/10.1007/s00216-022-04244-8">https://doi.org/10.1007/s00216-022-04244-8</a>	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	0.2872
343	ECS Sensors Plus, 1(3), 030601, 2022 <a href="https://doi.org/10.1149/2754-2726/ac88e3">https://doi.org/10.1149/2754-2726/ac88e3</a>	Mini-Review–Electrochemical sensors used for the determination of some antifungal azoles	BM Tuchiu, RI Stefan-van Staden, J (Koos) F van Staden	-
344	Sensors, 22(15), 5851, 2022 <a href="https://doi.org/10.3390/s22155851">https://doi.org/10.3390/s22155851</a>	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	0.3285
345	Sensors & Diagnostics, 1(5), 977-982, 2022 <a href="https://doi.org/10.1039/d2sd00119e">https://doi.org/10.1039/d2sd00119e</a>	Ultrafast screening of whole blood for early prediction of diabetes by fractalkine detection	RI Stefan-van Staden, DC Gheorghe, RA Stoica	-
346	Sensors, 22(16), 6181, 2022 <a href="https://doi.org/10.3390/s22166181">https://doi.org/10.3390/s22166181</a>	Highly sensitive electrochemical detection of azithromycin with graphene-modified electrode	F Pogăcean, C Varodi, L Măgerușan, RI Stefan-van Staden, S Pruneanu	0.2628



347	Nanomaterials, 12, 3111, 2022. <a href="https://doi.org/10.3390/nano12183111">https://doi.org/10.3390/nano12183111</a>	Carbon Nanopowder Based Stochastic Sensor for Ultrasensitive assay of CA 15-3, CEA and HER2 in whole blood	RI Stefan-van Staden, OR Musat, DC Gheorghe, RM Ilie-Mihai, JKF van Staden	0.3114
348	Scientific Reports, 12, 16241, 2022 <a href="https://doi.org/10.1038/s41598-022-19883-1">https://doi.org/10.1038/s41598-022-19883-1</a>	V-set and immunoglobulin domain containing 1 (VSIG1) as an emerging target for epithelial–mesenchymal transition of gastric cancer	CB Satală, I Jung, Z. Kovacs, RI Stefan-van Staden, T Bara, C Molnar, AI Patrichi, S. Gurzu	0.2295
349	Chemosensors, 10(10), 380, 2022 <a href="https://doi.org/10.3390/chemosensors10100380">https://doi.org/10.3390/chemosensors10100380</a>	Simultaneous analysis of MLH1, MSH2, MSH6, PMS2 and KRAS in patients with gastric and colon cancer using stochastic sensors	RI Stefan-van Staden, DC Gheorghe, F Pogacean, S Pruneanu	0.28625
350	Talanta Open, 6, 100151, 2022 <a href="https://doi.org/10.1016/j.talo.2022.100151">https://doi.org/10.1016/j.talo.2022.100151</a>	Ultrasensitive assay of HER-1, HER-2, and heregulin- $\alpha$ in whole blood	RI Stefan-van Staden, OR Musat, DC Gheorghe, RM Ilie-Mihai	-
351	ACS Omega, 7(46), 42537–42544, 2022 <a href="https://doi.org/10.1021/acs.omega.2c05904">https://doi.org/10.1021/acs.omega.2c05904</a>	N-methylfulleropyrrolidine based multimode sensor for determination of butoconazole nitrate	BM Țuchiu, RI Stefan-van Staden, JF van Staden, HY Aboul-Enein	0.3425
352	ECS Sensors Plus, 1, 031606, 2022 <a href="https://doi.org/10.1149/2754-2726/ac9740">https://doi.org/10.1149/2754-2726/ac9740</a>	Molecular recognition and quantification of MLH1, MSH2, MSH6, PMS2 and KRAS in biological samples	RI Stefan-van Staden, RM Ilie-Mihai, M Coros, SM Pruneanu	-
353	Micromachine, 13(10), 1749, 2022. <a href="https://doi.org/10.3390/mi13101749">https://doi.org/10.3390/mi13101749</a>	Molecular recognition and quantification of HER-3, HER-4 and HRG- $\alpha$ in whole blood and tissue samples using stochastic sensors	DC Gheorghe, Raluca-Ioana Stefan-van Staden	0.563
354	Chemistry, 4(4), 1382–1394, 2022. <a href="https://doi.org/10.3390/chemistry4040090">https://doi.org/10.3390/chemistry4040090</a>	An Approach to the Simultaneous Determination of a Panel of Five Biomarkers for the Early	C Cioates Negut, RI Stefan-van Staden, P Sfirloaga	-



		Detection of Brain Cancer Using the Stochastic Method		
355	Anal Lett, 56(1), 25-41, 2023 <a href="https://doi.org/10.1080/00032719.2022.2083146">https://doi.org/10.1080/00032719.2022.2083146</a>	Minireview: current trends, and future challenges for the determination of patulin in food products	C Cioates Negut, RI Stefan-van Staden, JF van Staden	0.1716
356	Anal Lett, 56(6), 847-869, 2023 <a href="https://doi.org/10.1080/00032719.2022.2107659">https://doi.org/10.1080/00032719.2022.2107659</a>	Review- recent developments in electrochemical detection of atrazine	IR Comnea-Stancu, JF van Staden, RI Stefan-van Staden	0.1716
357	Electroanalysis, 35(3), e2200305, 2023 <a href="https://doi.org/10.1002/elan.202200305">https://doi.org/10.1002/elan.202200305</a>	Simultaneous molecular recognition of IL-2, IL-4, and TNF- $\alpha$ in biological samples	C Cioates Negut, RI Stefan-van Staden, P Sfirloaga	0.264
358	Chemosphere, 310, 136909, 2023 <a href="https://doi.org/10.1016/j.chemosphere.2022.136909">https://doi.org/10.1016/j.chemosphere.2022.136909</a>	Simultaneous detection of anthracene and phenanthrene using a poly-Alizarin Red S/carbon paste electrode	IR Comnea-Stancu, JF van Staden, RI Stefan-van Staden, RN State	0.456
359 Q1	Food Chem, 407, 135158, 2023 <a href="https://doi.org/10.1016/j.foodchem.2022.135158">https://doi.org/10.1016/j.foodchem.2022.135158</a>	Effect of cooking and preserving on the heavy metals content of seafood, tuna and poultry	IA Chera-Anghel, RI Stefan-van Staden	1.6285
360	Sensors, 23(1), 344, 2023. <a href="https://doi.org/10.3390/s23010344">https://doi.org/10.3390/s23010344</a>	Gold nanoparticles/nanographene-based 3D sensors integrated in mini-platforms for thiamine detection	DC Gheorghe, JF van Staden, RI Stefan-van Staden, P. Sfirloaga	0.3285
361	Sensors, 23(1), 314, 2023. <a href="https://doi.org/10.3390/s23010314">https://doi.org/10.3390/s23010314</a>	Smart Portable Device Based on the Utilization of a 2D Disposable Paper Stochastic Sensor for Fast Ultrasensitive Screening of Food Samples for Bisphenols	RI Stefan-van Staden, IA Chera-Anghel, JF van Staden, DC Gheorghe, M Badulescu	0.2628

362 Q1	J. Electrochem. Soc., 170(3), 037503, 2023 <a href="https://doi.org/10.1149/1945-7111/acbe6f">https://doi.org/10.1149/1945-7111/acbe6f</a>	Molecular recognition and determination of Heregulin- $\alpha$ and HER family (HER1–4) as biomarkers in biological samples	RI Stefan-van Staden, C Cioates Negut, P Sfirloaga	0.608
363	Microorganisms, 11(3), 745, 2023 <a href="https://doi.org/10.3390/microorganisms11030745">https://doi.org/10.3390/microorganisms11030745</a>	Antibacterial Enhancement of High-Efficiency Particulate Air Filters Modified with Graphene-Silver Hybrid Material	A Ciorîță, M Suci, M Coroș, C Varodi, F Pogăcean, L Măgerușan, V Mirel, RI Stefan-van Staden, S Pruneanu	0.117
364 Q1	J Electrochem Soc, 170(3), 037516, 2023 <a href="https://doi.org/10.1149/1945-7111/acc42d">https://doi.org/10.1149/1945-7111/acc42d</a>	Multimode detection platform based on 3D integrated sensor for fast on-site assay of methylprednisolone in its pharmaceutical formulation and surface water samples	BM Tuchiu, RI Stefan-van Staden, JF van Staden, P Sfirloaga	0.456
365	Life, 13(4), 1060, 2023 <a href="https://doi.org/10.3390/life13041060">https://doi.org/10.3390/life13041060</a>	Correlation between maspin levels in different biological samples and pathologic features in colorectal adenocarcinomas	AA Bratei, RI Stefan-van Staden	0.553
366	Symmetry, 15, 958, 2023 <a href="https://doi.org/10.3390/sym15050958">https://doi.org/10.3390/sym15050958</a>	2D enantioselective disposable stochastic sensor for fast real-time enantioanalysis of glutamine in biological samples	RI Stefan-van Staden, MI Bogea, RM Ilie-Mihai, DC Gheorghe, M Badulescu	0.132
367 Q1	Microchim Acta, 190, 229, 2023 <a href="https://doi.org/10.1007/s00604-023-05811-1">https://doi.org/10.1007/s00604-023-05811-1</a>	Electrochemical platform based on molecularly imprinted polymer with zinc oxide nanoparticles and multiwalled carbon nanotubes modified screen-printed carbon electrode for amaranth determination	R. Georgescu-State, JF van Staden, RI Stefan-van Staden, RN State	0.39775
368	Chemosensors, 11(5), 259, 2023 <a href="https://doi.org/10.3390/chemosensors11050259">https://doi.org/10.3390/chemosensors11050259</a>	Enantioanalysis of leucine in whole blood samples using enantioselective, stochastic sensors	RI Stefan-van Staden, OR Musat	0.5725
369 Q1	J Electrochem Soc. 170, 057510, 2023	Miniplatforms for screening of biological samples for KRAS and four mismatch repair proteins as	RI Stefan-van Staden, AA Bratei, RM Ilie-	0.304

	<a href="https://doi.org/10.1149/1945-7111/acd358">https://doi.org/10.1149/1945-7111/acd358</a>	new tools for fast screening for gastric and colon cancers	Mihai, DC Gheorghe, BM Tuchi, S Gurzu	
370	RSC Advances, 13(26), 17628, 2023 <a href="https://doi.org/10.1039/d3ra02363j">https://doi.org/10.1039/d3ra02363j</a>	Stochastic platform based on calix[6]arene and TiO <sub>2</sub> modified reduced graphene oxide electrode for on-site determination of nonivamide in pharmaceutical and water samples	BM Tuchi, RI Stefan-van Staden, JF van Staden	0.4163
371	Nanotechnology, 34, 345101, 2023 <a href="https://doi.org/10.1088/1361-6528/acd9d3">https://doi.org/10.1088/1361-6528/acd9d3</a>	Nanoplatfrom-based analysis for the detection of HER3 and HER4 in gastric cancer	DC Gheorghe, RI Stefan-van Staden, RM Ilie-Mihai, P Sfirloaga	0.2925
372	Diagnostics, 13(11), 1857, 2023 <a href="https://doi.org/10.3390/diagnostics13111857">https://doi.org/10.3390/diagnostics13111857</a>	Minim invasive and fast diagnosis of gastric cancer based on correlations between maspin concentration levels in different biological samples and pathological features in gastric cancer patients	AA Bratei, RI Stefan-van Staden	0.542
373	ACS Food Sci Technol, 3(7), 1248–1254, 2023 <a href="https://doi.org/10.1021/acsfoodscitech.3c00136">https://doi.org/10.1021/acsfoodscitech.3c00136</a>	Fast screening test of apple juice and surface water for patulin recognition and quantification	C Cioates Negut, RI Stefan-van Staden, JF van Staden	-
374	Chemosensors, 11, 446, 2023 <a href="https://doi.org/10.3390/chemosensors11080446">https://doi.org/10.3390/chemosensors11080446</a>	Disposable stochastic platform for the simultaneous determination of calcipotriol and betamethasone in pharmaceutical and surface water samples	BM Tuchi, RI Stefan-van Staden, JF van Staden, HY Aboul-Enein	0.456
375	RSC Advances, 13, 24086-24092, 2023 <a href="https://doi.org/10.1039/d3ra04260j">https://doi.org/10.1039/d3ra04260j</a>	Bioanalysis of MMR and KRAS – a Key Factor in Diagnosis of Colorectal Cancer	RI Stefan-van Staden, AA Bratei, RM Ilie-Mihai, DC Gheorghe, BM Tuchi, S Gurzu	0.2498
376	J Pharm Biomed Anal, 235, 115630, 2023	New stochastic devices for simultaneous analysis of mismatch repair proteins and KRAS in biological samples	RI Stefan-van Staden, AA Bratei, RM Ilie-Mihai, DC Gheorghe, BM Tuchi	0.2166

	<a href="https://doi.org/10.1016/j.jpba.2023.115630">https://doi.org/10.1016/j.jpba.2023.115630</a>			
377	ChemElectroChem, 10(21), e2023002, 2023 <a href="https://doi.org/10.1002/celec.202300273">https://doi.org/10.1002/celec.202300273</a>	DNA mismatch repair assessment in gastric and colon cancers using stochastic microdisks	RI Stefan-van Staden, AA Bratei, RM Ilie-Mihai, DC Gheorghe, BM Tuchiu	0.2592
378	Microchem J., 194, 109288, 2023 <a href="https://doi.org/10.1016/j.microc.2023.109288">https://doi.org/10.1016/j.microc.2023.109288</a>	Ultrasensitive assay of 8-hydroxy-2'-deoxyguanosine in whole blood using carbon nanotubes based stochastic microsenors	RI Stefan-van Staden, OR Musat	0.635
379 Q1	J Electrochem Soc, 170, 097503, 2023 <a href="https://doi.org/10.1149/1945-7111/acf622">https://doi.org/10.1149/1945-7111/acf622</a>	Molecular differentiation of cathepsins B and D, and of p53 protein, and their quantitative assay in biological samples	AA Bratei, RI Stefan-van Staden, RM Ilie-Mihai, DC Gheorghe	0.456
380	Sci Bull UPB, 85(4), 169-176, 2023 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez433_915706.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez433_915706.pdf</a>	Sensitive electrochemical determination of betamethasone in DAIVOBET and in water samples	BM Tuchiu, RI Stefan-van Staden, JF van Staden	-
381	Sensors, 23(19), 8046, 2023 <a href="https://doi.org/10.3390/s23198046">https://doi.org/10.3390/s23198046</a>	Simultaneous assay of CA72-4, CA19-9, CEA and CA125 in biological samples using needle 3D stochastic microsenors	AA Bratei, RI Stefan-van Staden, RM Ilie-Mihai, DC Gheorghe	0.3285
382	Bull SChR, 30(2), 25-30, 2023 <a href="http://administrare.chimie.upb.ro/schr/doc/publicatii/buletinul-societatii-de-chimie-din-romania/2023-2.pdf">http://administrare.chimie.upb.ro/schr/doc/publicatii/buletinul-societatii-de-chimie-din-romania/2023-2.pdf</a>	Stochastic sensors	RI Stefan-van Staden	-
383	Electroanalysis, 35(12), e202300248, 2023	Ultrasensitive assay of atrazine in food and water samples	RI Stefan-van Staden, RA Niculae, JF van Staden	0.264

	<a href="https://doi.org/10.1002/elan.202300248">https://doi.org/10.1002/elan.202300248</a>			
384	Anal. Biochem., 683, 115366, 2023 <a href="https://doi.org/10.1016/j.ab.2023.115366">https://doi.org/10.1016/j.ab.2023.115366</a>	Extraction of essential oil from Heliotropium bacciferum: Compositions determination by GC-MS and anti-inflammatory and antibacterial activities evaluation	M Hasni, N Belboukhari, K Sekkoum, RI Stefan-van Staden, ZA ALOthman, I Ali	0.211
385	Gastrointestinal Disorders, 5, 487-499, 2023 <a href="https://doi.org/10.3390/gidisord5040040">https://doi.org/10.3390/gidisord5040040</a>	Differentiation between gastric and colorectal adenocarcinomas based on maspin, MLH1, PMS2 and K-Ras concentrations determined using stochastic sensors	AA Bratei, RI Stefan-van Staden	-
386 Q1	J Electrochem Soc, 170(11), 117516, 2023 <a href="https://doi.org/10.1149/1945-7111/ad0cd2">https://doi.org/10.1149/1945-7111/ad0cd2</a>	Enantioanalysis of serine using stochastic enantioselective sensors	RI Stefan-van Staden, CB Ion, R Georgescu-State	0.608
387	Electrochem Comm, 157, 107625, 2023 <a href="https://doi.org/10.1016/j.electcom.2023.107625">https://doi.org/10.1016/j.electcom.2023.107625</a>	Fast on-site simultaneous electroanalysis of fusidic acid and betamethasone in pharmaceuticals and water samples using novel stochastic platform	BM Tuchi, RI Stefan-van Staden, JF van Staden	0.474
388	Biomedicine, 11(12), 3213, 2023 <a href="https://doi.org/10.3390/biomedicines11123213">https://doi.org/10.3390/biomedicines11123213</a>	Correlations of MSH2 and MSH6 concentrations in different biological samples with clinicopathological features in colo-rectal adenocarcinoma patients, and their contribution to fast and early diagnosis of colorectal adenocarcinoma patients	AA Bratei, RI Stefan-van Staden	0.6245
389 Q1	J Electrochem Soc, 170(12), 127513, 2023 <a href="https://doi.org/10.1149/1945-7111/ad1585">https://doi.org/10.1149/1945-7111/ad1585</a>	Simultaneous assay of p53, HER3 and HER4 - a key factor in early detection of gastric cancer	C Cioates Negut, RI Stefan-van Staden, RM Ilie-Mihai, M Coros	0.456

390 Q1	Crit. Rev. Anal. Chem., 54(1), 1-10, 2024 <a href="https://doi.org/10.1080/10408347.2022.2045557">https://doi.org/10.1080/10408347.2022.2045557</a>	Mini-review: Electrochemical sensors used for the determination of water- and fat-soluble vitamins: B, D, K	DC Gheorghe, RI Stefan-van Staden, JF van Staden	0.544
391 Q1	Crit Rev Anal Chem, 54(1), 61-72, 2024 <a href="https://doi.org/10.1080/10408347.2022.2050348">https://doi.org/10.1080/10408347.2022.2050348</a>	Recent trends in ibuprofen and ketoprofen electrochemical quantification – a review	BM Țuchiu, RI Stefan-van Staden, JF van Staden	0.544
392	Anal. Lett., 57(4), 665–680, 2024 <a href="https://doi.org/10.1080/00032719.2023.2220847">https://doi.org/10.1080/00032719.2023.2220847</a>	Mini-Review–Recent innovations in corticosteroids determination using electrochemical sensors	BM Tuchia, RI Stefan-van Staden, JF van Staden	0.1716
393	Medinformatics, 00, 000, 2024/accepted MS <a href="https://doi.org/10.47852/bonviewMEDIN32021546">https://doi.org/10.47852/bonviewMEDIN32021546</a>	The importance of KRAS quantification in different biological fluids for a clinicopathological characterization in colorectal cancer patients	AA Bratei, RI Stefan-van Staden	-
394	ACS Omega, 00, 000, 2024/accepted MS	Disposable stochastic miniplatform for simultaneous recognition and determination of vitamins B5, B7 and B9 in food and pharmaceutical compounds	RI Stefan-van Staden, EY Rasit, DC Gheorghe, JF van Staden	0.3425

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