Curriculum Vitae

INFORMAŢII PERSONALE

Raluca-Ioana van Staden

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Data nasterii: 16.07.1969 | Naţionalitatea: Romana

Nume inaintea casatoriei: Stefan

EXPERIENŢA PROFESIONALĂ

1.03.2007 -

Profesor, CSI, Sef al Laboratorului de Electrochimie si PATLAB.
03.2014-07.2015 Director Stiintific al Institutului National de Cercetare pentru Electrochimie si Materie Condensata

15.12.2013

-

Profesor – conducator de doctorat la Universitatea Politehnica din Bucuresti

Cercetare, Director si coordonator de proiecte nationale si internationale, managementul laboratorului, indrumator pentru tineri cercetatori

1 Ian 06 - 31 Aug 06

Profesor Asociat de Chimie Analitica si Bioanaliza

Universitatea din Pretoria , Pretoria (Africa de Sud)

Educatie - conducator stiintific pentru master, doctorat, postdoc. Coordonator de curs, predare cursuri si laboratoare anii I-IV de studiu. Cercetare - coordonatoarea grupului de cercetare in bioanaliza si enantioanaliza in domeniile clinic si farmaceutic. Management - membra a Comitetului de Cercetare al Catedrei de Chimie. Mentor pentru tinerii cercetatori din catedra, in programe oferite de universitate si Royal Society of Chemistry.

1 Feb 98 - 31 Dec 00

Postdoc

Universitatea din Pretoria , Pretoria (Africa de Sud)

Educatie - predare de cursuri la anii II si IV, conducator stiintific de master si doctorat, membru in comisii de doctorat. Cercetare - in domeniul analizei farmaceutice, biomedicale si sisteme in flux.

1 Oct 92 - 31 Ian 98

Preparator si asistent universitar

Universitatea din Bucuresti , Bucuresti (România)

Educatie - curs anul IV, laboratoare anii I-IV, coordonare lucrari de licenta si master. Cercetare - in domeniile analizei clinice si farmaceutice.

EDUCAŢIE ŞI FORMARE

1 Oct 87 - 1 Iul 92

Diploma de Chimist - sef de promotie

Universitatea din Bucuresti, Bucuresti (România)

Chimie, specializarea chimie analitica. Sefa de promotie, Facultatea de Chimie, Specializarea – Chimie.

1 Mar 95 - 27 Mar 97	**Doctor in Chimie** Universitatea din Bucuresti, Bucuresti (România) Chimie, specializarea Chimie analitica
1 Oct 91 - 1 Iul 96	**Licentiat in pian si educatie muzicala** Universitatea Nationala de Muzica din Bucuresti, Bucuresti (România) pian si educatie muzicala
1 Oct 96 - 1 Iul 97	**Master in limbaj si stil compozitional** Universitatea Nationala de Muzica din Bucuresti, Bucuresti (România) Compozitie muzicala
29 Iul 2013	**Dr Habilitas in Chimie /al doilea doctorat. Drept de conducere a tezelor de doctorat.** România

COMPETENTE PERSONALE

Limba(i) matemă(e) Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleză	C2	C2	C2	C2	C2
Afrikaans	B1	B1	B1	B1	B1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadrul european comun de referinţă pentru limbi străine

Competenţe de comunicare Buna experienta in comunicarea stiintei.

Competenţe organizaţionale/manageriale Sunt manager a unei echipe de cercetare din 2001. La universitatea din Pretoria am avut 15 studenti in echipa (din toate nivelele de studii), aici am 7 studenti la nivel de master, doctorat si postdoctorat. Sunt managerul laboratorului in care lucrez. Am fost secretara Comisiei V1 Aspecte generale ale chimie analitice din cadrul IUPAC in perioada 1999-2001. Fac parte din comitetul executiv al Diviziei de Senzori din cadrul ECS, USA. Conduc proiecte de cercetare nationale si internationale.

Competenţe dobândite la locul de muncă Am facut parte din Comitetul de cercetare al Catedrei de Chimie din cadrul Universitatii din Pretoria. Fac parte din Comitetul stiintific al institutului.

Competenţe informatice MSWord, Corel si Sigma Plot.

ANEXE

1. PUBLICATII
2. PARTICIPARI LA CONFERINTE
3. CONDUCATOR STIINTIFIC
4. MEMBRU IN BIROURI NATIONALE/INTERNATIONALE
5. MEMBRU AL COLECTIVELOR DE REDACTIE
6. VIZITE LA UNIVERSITATI CA PROFESOR/CERCETATOR
7. MANAGEMENT SI ADMINISTRATIE
8. REFERENT
9. PREMII
10. ALTE ACTIVITATI PROFESIONALE
11. PROIECTE DE CERCETARE
12. ACTIVITATE DIDACTICA
13. ACTIVITATI ARTISTICE

1. Publicatii

1.1. Lucrari publicate in reviste ISI (h=26, peste 2700 citari)

1. 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
Rev. Roum. Chim., 36(4-7), 727-740, 1991.

2. Carbonic anhydrase inhibitors. Complexes of ethoxzolamide with lantanides are powerful inhibitors of isozymes I and II
C.T. Supuran, R. Stefan, Gh. Manole, I. Puscas and M. Andruh
Rev. Roum. Chim., 36(9-10), 1175-1190, 1991.

3. Penbutolol selective membrane sensor
M.S. Ionescu, R.I. Stefan, G.E. Baiulescu, A.A. Bunaciu, V.V. Cosofret and H.Y. Aboul-Enein
Anal. Lett., 26(10), 2095-2105, 1993.

4. 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
Anal. Lett., 27(9), 1647-1658, 1994.

5. 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
Rev. Chim. (Bucharest), 45(10), 837-843, 1994.

6. Solvent extraction of amino acids with crown ethers and Cryptand 222
L. Mutihac, D.O. Popescu and R.I. Stefan
Anal. Lett., 28(5), 835-843, 1995.

7. Mexiletine selective membrane electrode and its pharmaceutical applications
R.I. Stefan and M.S. Ionescu
Anal. Lett., 28(6), 991-1004, 1995.

8. Metomidate-sensing electrode and its pharmaceutical applications
R.I. Stefan and H.Y. Aboul-Enein
Anal. Lett., 29(1), 35-42, 1996.

9. Moclobemide selective membrane electrode and its pharmaceutical applications
R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein
Talanta, 43(7), 1171-1175, 1996.

10. Disopyramide-selective membrane electrode
R.I. Stefan and H.Y. Aboul-Enein
Anal. Lett., 29(13), 2333-2346, 1996.

11. Amiodarone-selective membrane electrode
R.I. Stefan, H.Y. Aboul-Enein and G.E. Baiulescu
Sens. Actuators B, 37(3), 141-144, 1996.

12. Flecainide-selective membrane electrodes
R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein
Analusis, 25(2), 39-42, 1997.

13. Ion-selective membrane electrodes: membrane configuration
R.I. Stefan and H.Y. Aboul-Enein
Instrum. Sci. & Technol., 25(2), 169-173, 1997.

14. Tamoxifen-selective membrane electrodes
R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein
Pharmazie, 52(10), 780-783, 1997.

15. Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide
R.I. Stefan
Anal. Chim. Acta, 350(1-2), 105-108, 1997.

16. Ion-selective membrane electrodes in pharmaceutical analysis
R.I. Stefan, G.E. Baiulescu and H.Y. Aboul-Enein
Crit. Rev. Anal. Chem., 27(4), 307-321, 1997.

17. Taxol-selective membrane electrodes
R.I. Stefan and H.Y. Aboul-Enein
J. Anal.Chem., 53(6), 551-553, 1998.

18. Validation criteria for developing ion-selective membrane electrodes for analysis of pharmaceuticals
R.I. Stefan and H.Y. Aboul-Enein
Accred. Qual. Assur., 3, 194-196, 1998.

19. 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
Anal. Lett., 31(11), 1787-1794, 1998.

20. Enantioselective sensors and biosensors in the analysis of chiral drugs
H.Y. Aboul-Enein and R.I. Stefan
Crit. Rev. Anal. Chem., 28(3), 259-266, 1998.

21. 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
Current Trends Anal. Chem., 1(1), 135-138, 1998.

22. Biosensors for the enantioselective analysis of S-enalapril and S-ramipril
R.I. Stefan, H.Y. Aboul-Enein and G.L. Radu
Prep. Biochem. & Biotechnol., 28(4), 305-312, 1998.

23. 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
Instrum. Sci. & Technol., 27(2), 105-110, 1999.

24. 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
Talanta, 48(5), 1139-1143, 1999.

25. Potentiometric, enantioselective membrane electrodes for S-enalapril assay
H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden
Analusis, 27(1), 53-56, 1999.

26. 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
Seminars in Food Analysis, 4(1), 31-37, 1999.

27. Biosensors for the enantioselective analysis of S-perindopril
H.Y. Aboul-Enein, R.I. Stefan and G.L. Radu
Prep. Biochem. & Biotechnol., 29(1), 55-61, 1999.

28. The construction of an amperometric immunosensor for the thyroid hormone (+)-3,3',5-triiodo-L-thyronine (T_3)
H.Y. Aboul-Enein, R.I. Stefan, G.L. Radu and G.E. Baiulescu
Anal. Lett., 32(3), 447-455, 1999.

29. Analysis of several angiotensin-converting enzyme inhibitors using potentiometric, enantioselective membrane electrodes
H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden
Anal. Lett., 32(4), 623-632, 1999.

30. Biosensor for the enantioselective analysis of S-cilazapril, S-trandolapril and S-pentopril
H.Y. Aboul-Enein, R.I. Stefan and G.L. Radu
Pharm. Developm. Technol., 4(2), 251-255, 1999.

31. 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
Sens. Actuators B, 54(3), 261-265, 1999.

32. 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
S. Afr. J. Chem., 52(1), 24-26, 1999.

33. The opportunity to use ion-selective membrane electrodes for dissolution tests
H.Y. Aboul-Enein and R.I. Stefan
Instrum. Sci. & Technol., 27(2), 89-93, 1999.

34. Electrochemical sensor arrays
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Crit. Rev. Anal. Chem., 29(2), 133-153, 1999.

35. Estimation of uncertainties in clinical analysis
R.I. Stefan, G.E. Baiulescu, H.Y. Aboul-Enein and J.F. van Staden
Accred. Qual. Assur., 4(6), 225-229, 1999.

36. 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
Electroanalysis, 11(3), 192-194, 1999.

37. Enantioselective membrane electrode for S-ramipril assay
R.I. Stefan, J.F. van Staden, G.E. Baiulescu and H.Y. Aboul-Enein
Chemia Analityczna, 44(3), 417-422, 1999.

38. S-perindopril assay using a potentiometric, enantioselective membrane electrode
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Chirality, 11(8), 631-634, 1999.

39. The reliability of the sampling process for the trace atmospheric constituents
R.I. Stefan, H.Y. Aboul-Enein and G.E. Baiulescu
Saudi Pharm. J., 7(2), 103-110, 1999.

40. 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
Pharm. Acta Helv., 73(6), 307-310, 1999.

41. Analysis of chiral drugs with enantioselective biosensors. An overview.
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Electroanalysis, 11(16), 1233-1235, 1999.

42. 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
Talanta, 49(5), 1017-1022, 1999.

43. Chemiluminescence-based (bio)sensors
H.Y. Aboul-Enein, R.I. Stefan and J.F. van Staden
Crit. Rev. Anal. Chem., 29(4), 323-331, 1999.

44. Nicolae Teclu one of the founders of the spectrometric techniques
G.E. Baiulescu and R.I. Stefan
NOESIS, 24, 159-163, 1999.

45. Immunosensors in clinical analysis
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Fresenius J. Anal. Chem., 366(6/7), 659-668, 2000.

46. Amperometric biosensors based on D-amino acid oxidase for R-perindopril assay
J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein
Fresenius J. Anal. Chem., 367(2), 178-180, 2000.

47. Simultaneous determination of S- and R-captopril using sequential injection analysis
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Talanta, 51(5), 969-975, 2000.

48. 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
Biosens. Bioelectron., 15(1-2), 1-5, 2000.

49. Evaluation of different SIA systems using an electrochemical sensor as detector
J.F. van Staden, R.I. Stefan and S. Birghila
Talanta, 52(1), 3-11, 2000.

50. Determination of urinary oxalate using oxalate-selective membrane electrodes
R.I. Stefan, I. Draghici and G.E. Baiulescu
Sens. Actuators B, 65(1-3), 250-252, 2000.

51. On-line assay of S-captopril using an amperometric biosensor/SIA system
J.F. van Staden, R.I. Stefan and H.Y. Aboul-Enein
Anal. Chim. Acta, 411(1-2), 51-56, 2000.

52. 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
Combinatorial Chemistry & High Throughput Screening, 6(3), 445-454, 2000.

53. 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
Crit. Rev. Anal. Chem., 30(4), 271-289, 2000.

54. Molecular recognition in chiral discrimination
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Crystal Engineering, 4, 113-118, 2001.

55. Maltodextrins as new chiral selectors in potentiometric enantioselective, membrane electrodes design
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Fresenius J. Anal. Chem., 370(1), 33-37, 2001.

56. 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
Pure and Appl. Chem., 73(8), 1381-1386, 2001.

57. A bienzymatic amperometric sensor for proteins assay in milk
R.I. Stefan, M.A. Makhafola and J.F. van Staden
Prep. Biochem. Biotechnol., 32(2), 135-142, 2002.

58. 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
S. Afr. J. Chem., 55, 39-51, 2002.

59. Biosensors for the enantioselective analysis of the thyroid hormones L-triiodothyronine (T_3) and L-tetraiodothyronine (T_4)
H.Y. Aboul-Enein, R.I. Stefan, S. Litescu and G.L. Radu
J. Immunoassay Immunochem., 23(2), 181-190, 2002.

60. 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
Anal. Chim. Acta, 467, 189-195, 2002.

61. 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
Anal. Chim. Acta, 467, 35-49, 2002.

62. 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
J. Immunoassay Immunochem., 23(4), 429-437, 2002.

63. On-line monitoring of R-captopril using an amperometric biosensor/SIA system
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Instrum. Sci. & Technol., 30(3), 243-250, 2002.

64. 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
Anal. Chim. Acta, 467, 51-60, 2002.

65. 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
Pure and Appl. Chem., 74, 585-592, 2002.

66. 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
Talanta, 58(6), 1089-1094, 2002.

67. 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
Talanta, 58(6), 1109-1114, 2002.

68. New horizons in sequential injection kinetic analysis
J.F. van Staden and R.I. Stefan
Anal. Bioanal. Chem., 374, 3-12, 2002.

69. 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
Anal. Bioanal. Chem., 374, 141-144, 2002.

70. Estimation of uncertainties for the application of electrochemical sensors in clinical analysis
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Accred. Qual. Assur., 8(2), 86-89, 2003.

71. 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
Talanta, 59(5), 883-887, 2003.

72. 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
Anal. Lett., 36(6), 1089-1100, 2003.

73. Polycrystalline diamond based electrochemical sensors and their applications in inorganic and organic analysis
S.G. Bairu, R.I. Stefan and J.F. van Staden
Crit. Rev. Anal. Chem., 33(2), 145-153, 2003.

74. 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
Anal. Lett., 36(8), 1493-1500, 2003.

75. Biosensors for enantioselective analysis of S-captopril
R.I. Stefan, C. Bala and H.Y. Aboul-Enein
Sens. Actuators B, 92(1-2), 228-231, 2003.

76. Diamond paste based electrodes for the determination of Cr(VI) at trace levels
R.I. Stefan and S.G. Bairu
Instrum. Sci. & Technol., 31(3), 261-167, 2003.

77. Determination of creatine and creatinine using a diamond paste based electrode
R.I. Stefan and R.G. Bokretsion
Instrum. Sci. & Technol., 31(2), 183-188, 2003.

78. Biosensors for the determination of ortho-acetyl-L-carnitine. Their utilization as detectors in a sequential injection analysis system
R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein
Prep. Biochem. Biotechnol., 33(3), 163-171, 2003.

79. Diamond paste based immunosensor for the determination of azidothymidine
R.I. Stefan and R.G. Bokretsion
J. Immunoassay Immunochem., 24(3), 319-324, 2003.

80. Determination of L- and D-enantiomers of methotrexate using amperometric biosensors
R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein
Talanta, 60(5), 983-990, 2003.

81. 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
Anal. Bioanal. Chem., 375(8), 1074-1082, 2003.

82. Diamond paste based electrodes for the determination of Cr(III) in pharmaceutical compounds
R.I. Stefan, S.G. Bairu and J.F. van Staden
Anal. Bioanal. Chem., 376(6), 844-847, 2003.

83. Simultaneous determination of creatine and creatinine using amperometric biosensors
R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein
Talanta, 60(6), 1223-1228, 2003.

84. Simultaneous determination of L- and D-carnitine using a sequential injection analysis/amperometric biosensors system
R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein
J. Pharm. Biomed. Anal., 33(2), 323-328, 2003.

85. Biosensors for the enantioselective analysis of pipecolic acid
R.I. Stefan, R.M. Nejem, J.F. van Staden and H.Y. Aboul-Enein
Sens. Actuators B, 94(3), 271-275, 2003.

86. Simultaneous determination of L- and D-methotrexate using a sequential injection analysis/amperometric biosensors system
R.I. Stefan, R.G. Bokretsion, J.F. van Staden and H.Y. Aboul-Enein
Biosens. Bioelectron., 19(3), 261-267, 2003.

87. Determination of Fe(III) in water samples using diamond paste based electrodes
R.I. Stefan, S.G. Bairu and J.F. van Staden
Instrum. Sci. & Technol., 31(4), 411-416, 2003.

88. Determination of L- and D-pipecolic acid using diamond paste based amperometric biosensors
R.I. Stefan and R.M. Nejem
Anal. Lett., 36(12), 2635-2644, 2003.

89. Monocrystalline diamond paste based electrodes and their applications for the determination of Fe(II) in vitamins
R.I. Stefan and S.G. Bairu
Analytical Chemistry, 75(20), 5394-5398, 2003.

90. New enantioselective, potentiometric membrane electrodes based on C_{70} fullerenes as chiral selectors
R.I. Stefan
Sensor Letters, 1(1), 71-74, 2003.

91. 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
Anal.Chim.Acta, 499(1-2), 129-137, 2003.

92. 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
Talanta, 62(4), 681-685, 2004.

93. Determination of L and D-pipecolic acids using a diamond paste based electrode
R.I. Stefan and R.M. Nejem
Instrum.Sci. & Technol., 32(3), 311-320, 2004.

94. Diamond paste based electrodes for the determination of Pb(II) at trace concentration levels
R.I. Stefan and S.G. Bairu
Talanta, 63(3), 605-608, 2004.

95. Enantioselective, potentiometric membrane electrodes based on maltodextrins. Their applications for determination of L-Proline.
K.I. Ozoemena and R.I. Stefan
Sens.Actuators B, 98(1), 97-100, 2004.

96. 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
Talanta, 63(3), 515-519, 2004.

97. Determination of (+)-3,3',5-triiodo-L-thyronine (L-T_3) from serum using a sequential injection analysis/immunosensor system
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
J. Immunoassay Immunochem., 25(2), 183-189, 2004.

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R.G. Bokretsion, R.I. Stefan-van Staden, J.F. van Staden H.Y. Aboul-Enein
Crit.Rev.Anal.Chem., 45(1), 2-31, 2015

206. New Stochastic Microsensors Based on Oleamides
C. Cioates Negut, R.I. Stefan–van Staden, I. Moldoveanu, E.M. Ungureanu, C. Stanciu-Gavan
Electrochem.Comm., 51, 98-102, 2015

207. 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
J Molec Recogn, 28(1), 10-19, 2015

208. Pattern recognition of HER-1 in biological fluids using stochastic sensing
R.I. Stefan-van Staden, I. Moldoveanu, C. Stanciu-Gavan
Journal of Enzyme Inhibition and Medicinal Chemistry, 30(2), 283-285, 2015

209. 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
J Molec Recogn, 28(2), 103-107, 2015

210. 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. Savlovschi
Rev Roum Chim, 60(5-6), 447-451, 2015

211. Design of potentiometric sensors based on Interaction of cyclodextrins (chiral selectors) with the enantiomer of interest. Applications for pharmaceutical analysis.
R.I. Stefan-van Staden, R.G. Bokretsion, J.F. van Staden, H.Y. Aboul-Enein
Current Drug Therapy, 9, 250-255, 2014

212. 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
Anal.Lett., 49(3), 335-341, 2016

213. Detection of folic acid from orange juice using amperometric dot microsensors based on graphite and graphene
R. Georgescu, J.F. van Staden, R.I. Stefan-van Staden, C. Boscornea
Rev Roum Chim, 60(5-6), 461-466, 2015

214. 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
J Porph Phthal, 19(5), 679-687, 2015

215. A new hypothesis of aging
AG Diaconeasa, M Rachita, R.I. Stefan-van Staden
Medical Hypothesis, 84(3), 252-257, 2015

216. 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
Spectrochim Acta Part A, 142, 204-209, 2015

217. 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
Electroanalysis, 27(8), 1842-1846, 2015

218. Enantioselective, potentiometric membrane electrodes based on C_{70} fullerenes for the enantioanalysis of S-Clenbuterol in serum
R.I. Stefan-van Staden
J Electrochem Soc, 162(7), H477-H480, 2015

219. Novel Textile Material Based Disposable Sensors for Biomedical Analysis
R.I. Stefan-van Staden, L.A. Gugoasa, M. Badulescu, C. Surdu-Bob
RSC Advances, 5(56), 45545-45550, 2015

220. 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
RSC Advances, 5(70), 57164-57170, 2015

221. A new graphene stochastic sensor for the molecular screening of TNF-α
I.R. Comnea-Stancu, R.I. Stefan-van Staden, A.R. Biris
J.Electrochem.Soc., 162(9), B245-B247, 2015

222. 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
Nanoscale, 7(36), 14848-14853, 2015

223. 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
ECS J Solid State Sci Technol, 4(10), S3006-S3010, 2015

224. Pattern recognition of HER-2 in whole blood samples using stochastic microsensors
I. Moldoveanu, R.I. Stefan-van Staden
ESC J Solide State Science & Technol., 4(10), S3067-S3070, 2015

225. Pattern recognition of adipokines in whole blood samples using stochastic sensing
L.A. Gugoasa, R.I. Stefan-van Staden, O.C. Rusu
Microsystem Technologies, 22(1), 11-16, 2016

226. 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
Microsystem Technologies, 22(1), 25-29, 2016

227. New nanocomposites-graphene pastes based stochastic microsensors
R.I. Stefan-van Staden, L.A. Gugoasa, C.A. Socaci, A.R. Biris
RSC Advances, 5(81), 66185-66191, 2015

228. 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
Microelectronic Engineering, 148, 64-69, 2015

229. 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
Nanoscale, 7(38), 15689-15694, 2015

230. Fast screening test of whole blood samples and pharmaceutical compounds for enantiorecognition of free L-T_3, L-T_4, and D-T_4
G Mitrofan, RI Stefan-van Staden, IR Comnea-Stancu, JF van Staden, G Bazylak, C Kapnissi-Christodoulou, HY Aboul-Enein
Chirality, 27(12), 973-978, 2015

231. Ionic Liquids for the Molecular Enantiorecognition of free L-T_3, L-T_4 and D-T_4
RI Stefan-van Staden, G Mitrofan, IR Comnea-Stancu, JF van Staden, C Kapnissi-Christodoulou, HY Aboul-Enein
RSC Adv, 5(92), 75451-75457, 2015

232. 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
Current Pharmaceutical Analysis, 00, 000, 2016.

233. Carbon modified paper based disposable sensors
R.I. Stefan-van Staden, I. Moldoveanu, C. Surdu-Bob, M. Badulescu, J.F. van Staden
J Electrochem Soc, 162(14), B360-B362, 2015

234. 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
J Electrochem Soc, 162(14), B351-B353, 2015

235. 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
Anal.Lett., 49(3), 335-341, 2016

236. Pattern recognition of adipokines in whole blood samples using stochastic sensing
L.A. Gugoasa, R.I. Stefan-van Staden, O.C. Rusu
Microsystem Technologies, 22(1), 11-16, 2016

237. 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
Microsystem Technologies, 22(1), 25-29, 2016

238. New stochastic sensors for the assay of biogenic amines in wines
F. Harja, R.I. Stefan–van Staden, I.R. Comnea-Stancu, C. Cioates Negutc, E.M. Ungureanu
J Electrochem Soc, 163(6), B252-B255, 2016.

239. Stochastic sensors designed for assessment of biomarkers specific to obesity
C Cioates Negut, RI Stefan-van Staden, EM Ungureanu, DI Udeanu
J Pharm Biomed Anal, 128, 280-285, 2016.

240. New Azulene Based Stochastic Microsensor
GL Arnold, RI Stefan-van Staden, I Moldoveanu-Ionita, EM Ungureanu, LR Popescu-Mandoc
J Electrochem Soc, 163(10), B563-566, 2016

241. Fast Screening of Tissue Samples for Glycogen
RI Stefan-van Staden, AG Diaconeasa, C Stanciu Gavan
J Pharm Biomed Anal, 135, 16-19, 2017

242. 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
Current Pharmaceutical Analysis, 13, 154-161, 2017.

243. 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
Microsystem Technology, 23,1141–1145, 2017.

244. 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
J Electrochem Soc,, 164(6), B267-B273, 2017

245. Multimode microsensors based on Ag-TiO2-graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples
L.A. Gugoasa, A.J.M. Al`Ogaidi, R..I. Stefan-van Staden, A. El-Khatib, M.C. Rosu, S. Pruneanu
RSC Advances, 7, 28419 - 28426, 2017

246. Advanced methods for analysis of testosterone
L.A. Gugoasa, R.I. Stefan-van Staden
Current Medicinal Chemistry, 000, 000, 2017

247. 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
J Electrochem Soc, 164(9), B443-B447, 2017

248. 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. Yanık, M. Göksel, A. Alexandru, M. Durmuş
Anal Bioanal Chem, 00, 000, 2017

249. Determination of p53 using Graphite Based Amperometric Sensors
R.I. Stefan-van Staden, A.J.M. AL-Ogaidi, L.A. Gugoasa
J Electrochem Soc., 164(12), B502-B505, 2017

1.2. Carti si capitole in carti

1. *"Quality and Reliability in Analytical Chemistry"*
H.Y. Aboul-Enein, **R.I. Stefan** and G.E. Baiulescu
CRC Press, Boca Raton, Florida, USA, 28 September 2000.

2. *"Electrochemical Sensors in Bioanalysis"*
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
Marcel Dekker Inc., New York, USA, 2001.

3. *"Laboratory Auditing for Quality and Regulatory Compliance"*
D.C. Springer, **R.I. Stefan** and J.F. van Staden
Taylor and Francis, New York, USA, 2005.

4. *"Recent developments of chemiluminescence sensors"* (Chapter 20)
X.R. Zhang, A.M. Garcia-Campana, W.R.G. Bayens, **R.I. Stefan**,
H.Y. Aboul-Enein and J.F. van Staden
in CHEMILUMINESCENCE IN ANALYTICAL CHEMISTRY.
A.M. Garcia-Campana and W.R.G. Baeyens (Editors)
Marcel Dekker, Inc., New York. USA, 2001.

5. *"Sequential Injection Analysis in HPLC"* (Chapter) in
ENCYCLOPEDIA OF CHROMATOGRAPHY
R.I. Stefan, H.Y. Aboul-Enein and J.F. van Staden
Jack Cazes (Editor)
Marcel Dekker, Inc.**, New York. USA, 2001.**

6. "*Enantioselective Electrochemical Sensors"* (Chapter) in
SENSORS UPDATE, Volume 10
R.I. Stefan, H.Y. Aboul-Enein and J.F. van Staden
H. Baltes, G.K. Fedder, G. Korvink (Editors)
Wiley-VCH **,Weinheim , Germany, 2001.**

7. *"Biosensors Technology"* (Chapter 21) in
EWEING'S ANALYTICAL INSTRUMENTATION HANDBOOK
R.I. Stefan, H.Y. Aboul-Enein and J.F. van Staden
Jack Cazes (Editor)
Marcel Dekker, Inc.**, New York. USA, 2004.**

8. "*Enantioselective Biosensors*"
(Chapter 13) in
CHIRAL SEPARATION TECHNIQUES. A PRACTICAL APPROACH.
R.I. Stefan, J.F. van Staden and H.Y. Aboul-Enein
G. Subramanian (Editor)
Wiley-VCH ,Weinheim , Germany, 2006.

9. "*Enantioselective, Potentiometric Membrane Electrodes. Design, mechanism of potential development and applications for pharmaceutical and biomedical analysis"* (Chapter 3) in
ELECTROCHEMICAL SENSOR ANALYSIS
R.I. Stefan-van Staden
S. Alegret, A Merkoci (Editors)
Elsevier, 2007.

10. "*Enantioanalysis of S-Captopril using an enantioselective, potentiometric membrane electrode*" (Procedure 3) in
ELECTROCHEMICAL SENSOR ANALYSIS
R.I. Stefan-van Staden, J.F. van Staden and H.Y. Aboul-Enein
S Alegret, A Merkoci (Eds)
Elsevier, Amsterdam, The Netherlands, (ISBN: 978-0-444-53053) 2007.

11. "*Electrochemical biosensors based on screen-printed electrodes. Applications for environmental and food analysis"* (Chapter) in
RECENT ADVANCES IN ANALYTICAL ELECTROCHEMISTRY
M. Tudorache, C. Bala and **R.I. Stefan**
K.I. Ozoemena (Editor)
Research Signpost, (978-81-7895-274-1) 2007.

12. "*Mechanism of potential development for potentiometric sensors, based on modeling of interaction between electrochemically active compounds from the membrane and analyte"* (Chapter) in
CHEMICAL SENSORS: SIMULATION AND MODELING
R.I. Stefan-van Staden
G. Korotcenkov (Editor)
Momentum Press, LLC, 2013.

13. "*Electrochemical Sensors Based on Nanostructured Materials"* (Chapter) in
HANDBOOK OF NANOELECTROCHEMISTRY. ELECTROCHEMICAL SYNTHESIS METHODS, PROPERTIES AND CHARACTERIZATION TECHNIQUES
I. Moldoveanu, **R.I. Stefan-van Staden,** J.F. van Staden
Mahmood Aliofkhazraei, Abdel Salam Hamdy Makhlouf (Editors)
Springer International Publishing Switzerland, 2015. (ISBN: 978-3-319-15207-3)

1.3 Brevete

1. Procedeu de realizare a senzorilor stocastici pe baza de porfirine si pasta de diamant sau grafit pentru determinarea acidului ascorbic la nivel molecular
Raluca-Ioana van Staden, Eugenia Lenuta Fagadar-Cosma
Nr 123101/Octombrie 2010.

2. STOC-µSENS-CMD
Raluca-Ioana van Staden, Jacobus Frederick van Staden
Nr 125050/Decembrie 2010.

3. DOT senzor enantioselectiv si procedeu de realizare a acestuia
Raluca-Ioana van Staden, Jacobus Frederick van Staden
Nr 126158/Iulie 2016.

2. Participari la conferinte

Lucrari invitate: peste 20
Prezentari orale trimise: peste 150
Postere trimises: peste 300

Presedinte de sectiune:

Session Chair:

- KAC'2001, 7th International Symposium on Kinetics in Analytical Chemistry, Bucharest, Romania. 21-23 September 2001.
- 37th SACI Convention. Chemistry for a better life. Pretoria, South Africa. 4 - 9 July 2004.
- 13 IMCS'2010. 13th International Meeting on Chemical Sensors. Perth, Australia. 11-14 July 2010.
- 222nd Meeting of ECS, PRIME 2012 PACIFIC RIM MEETING ON ELECTROCHEMICAL AND SOLID-STATE SCIENCE, Honolulu, Hawai, USA. 7 - 12 October 2012.
- 223rd Meeting of ECS, Toronto, Canada, May 2013.
- 225th Meeting of ECS, Orlando, USA, May 2014.
- 227th Meeting Chicago, USA, May 2015.
- 228th Meeting Phoenix, USA, October 2015.

O SELECTIE A PREZENTARILOR:

2.1. Lucrari invitate

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, 7th 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. 7th 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. 9th 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 Deutcher 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. 12th 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. 12th 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**
3rd Black Basin Conference on Analytical Chemistry, 12th-14th of September 2005, Constantza, Romania

11. Stochastic Microsensors for Molecular Diagnosis
R.I. Stefan-van Staden
13 IMCS'2010. 13th 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
220th 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
224th 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
8th 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 3rd 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 ştiinţifice PROGRESE ÎN STIINłA 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, 29June- 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)

a. Prezentari orale

1. *Mianserin Ion Selective Membrane Electrode and Its Pharmaceutical Applications*
M.S. Ionescu, **R.I. Stefan**, A.A. Bunaciu, V.V. Cosofret
The Xth National Conference on Analytical Chemistry, Jassy, Romania, 19-20 September, 1991.

2. *Penbutolol Selective Membrane Sensor*
M.S. Ionescu, **R.I. Stefan**, G.E. Baiulescu, A.A. Bunaciu, V.V. Cosofret, H.Y. Aboul-Enein
The XIth National Conference on Analytical Chemistry, Cluj-Napoca, Romania, 24-25 September 1992.

3. *Moclobemide Selective Membrane Electrode and Its Pharmaceutical Applications*
R.I. Stefan, G.E. Baiulescu
National Symposium of Electrochemical Sensors and Biosensors, Cluj-Napoca, Romania, 28-29 September 1995.

4. *The Utilization of Ion-Selective Membrane Electrodes for the in vitro Dissolution Test of Pharmaceutical Compounds*
R.I. Stefan
The Drugs Research Between Information and Life Sciences. First International Conference, Bucharest, Romania, 3-4 October 1996.

5. *Utilization of Lauryl Sulphate for the Construction of Membrane of Ion-Selective Electrodes*
R.I. Stefan
The XXIInd National Conference on Chemistry (1996), Olanesti, Romania, 23-24 October 1996.

6. *Taxol - Selective Membrane Electrodes*
R.I. Stefan, H.Y. Aboul-Enein
International Congress on Analytical Chemistry, Moscow, Russia, 15-21 June 1997.

7. *Ion-Selective Membrane Electrodes: Correlation Between Their Response and Stability of Ion Pair Complexes*
R.I. Stefan
Workshop - Chemometrics, Timisoara, Romania, 25-26 September 1997.

8. *Biosensors for enantioselective analysis*
R.I. Stefan, G.L. Radu, H.Y. Aboul-Enein
The XXIIIrd National Conference on Chemistry, Caciulata, Romania, 8-10 October 1997.

9. *Nicolae Teclu One of the Founders of Spectrometric Techniques*
G.E. Baiulescu, **R.I. Stefan**
Romanian Academy. The Session of Scientific Communications, Bucharest, Romania, 6 November 1997.

10. *Enantioselective biosensors in the analysis of chiral drugs*
R.I. Stefan, H.Y. Aboul-Enein, J.F. van Staden
10th International Symposium on Chiral Discrimination, ISCD'98, Vienna, Austria, 30 August - 2 September 1998.

11. *Simultaneous determination of substances using flow injection systems with multi sensor ion-selective electrodes in array*
J.F. van Staden, R.I. Stefan
7th International Chemistry Conference in Africa , Durban, South Africa, 6-10 July 1998.

12. *Role of ion-selective membrane electrodes in pharmaceutical analysis*
R.I. Stefan, J.F. van Staden
Analitika '98, Midrand, South Africa, 12-14 October 1998.

13. *New construction for potentiometric, enantioselective membrane electrodes*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein, G.E. Baiulescu
Pittcon'99, Orlando, Florida, USA, 7-12 March 1999.

14. *Simultaneous detection of enantiomers using amperometric biosensors in flow injection systems*
J.F. van Staden, R.I. Stefan, H.Y. Aboul-Enein, G.E. Baiulescu
Pittcon'99, Orlando, Florida, USA,7-12 March 1999.

15. *Flow injection systems for enantioselective analysis of chiral drugs*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
1999 International Conference on Flow Injection Analysis, Prague, Czech Republic, June 1999.

16. *Sandwiching in sequential injection analysis*
J.F. van Staden, R.I. Stefan, S. Birghila
1999 International Conference on Flow Injection Analysis, Prague, Czech Republic, June 1999.

17. *Immunoassay using sensor/SIA systems*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

18. *Bienzymatic sensor for proteins assay in milk*
R.I. Stefan, M. Makhafola, J.F. van Staden
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

19. *Molecular recognition in chiral discrimination*

R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
INDABA III, Workshop on Symmetry and Structure: Symmetry Breaking, Chirality and Disorder in Molecules and Crystals, Skukuza, Kruger National Park, South Africa, 6-11 August 2000.

20. *Immunoassay using sensor/SIA systems*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
Euroanalysis XI, Lisbon, Portugal, 3-9 September 2000.

21. *Design and use of electrochemical sensors in enantioselective high throughput screening of drugs*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
ISCD 12, The International Symposium on Chirality, Chamonix, Mont Blanc, France, 24-28 September 2000.

22. *Validation criteria for an analytical method*
R.I. Stefan, J.F. van Staden
The Millenium International Conference of the Israel Society for Quality, Jerusalem, Israel, 28-30 November 2000.

23. *Validation criteria for SIA and FIA systems in process control*
J.F. van Staden, R.I. Stefan
The Millenium International Conference of the Israel Society for Quality, Jerusalem, Israel, 28-30 November 2000.

24. *Maltodextrins as new chiral selectors in potentiometric enantioselective, membrane electrodes design*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
Pittcon 2001, New Orleans, LA, USA, 4-9 March 2000.

25. *Multi-component sequential injection process analytical systems*
J.F. van Staden, R.I. Stefan
Pittcon 2001, New Orleans, LA, USA, 4-9 March 2000.

26. *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, W. Lindner, N. M. Maier, J. F. van Staden
ISCD 13, 13th International Symposium on Chirality, Orlando, Florida, USA, 15-17 July 2001.

27. *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
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications. Ioannina. Greece. 5 - 8 September 2001.

28. *High throughput screening of drugs using (bio)sensors/SIA systems*
R.I. Stefan, J.F. van Staden and H Y Aboul-Enein
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

29. *Speciation by sequential injection analysis*
J.F. van Staden, R.I. Stefan and L.V. Mulaudzi
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

30. *New chiral selectors used in the design of the potentiometric, enantioselective membrane electrodes*
R.I. Stefan
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

31. *The XXX system. A new strategy and concept in flow analysis.*
J.F. vanStaden and R.I. Stefan.
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

32. *Determination of azidothymidine using an immunosensor/SIA system.*
R.I. Stefan, J.F. van Staden, R.G. Bokretsion and H.Y. Aboul-Enein.
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

33. *Diamond paste based electrochemical sensors*
R.I. Stefan, and J.F. van Staden
37th SACI Convention. Chemistry for a better life. Pretoria. 4 - 9 July 2004.

34. Enantioselective, potentiometric membrane electrodes for the enantioanalysis of L- and D-2-hydroxyglutaric acids in urine samples
R.M. Nejem, **R.I. Stefan**, J.F. van Staden and H.Y. Aboul-Enein
37th SACI Convention. Chemistry for a better life. Pretoria. 4 - 9 July 2004.

35. *Enantioselective, potentiometric membrane electrode based on vancomycin. Its application for the determination of L-pipecolic acid*
AA. Rat'ko and R.I. Stefan
6th Symposium "Molecular and cell function of the biological systems". Minsk. 6 - 8 October 2004.

36. Process analytical technology (PAT) as seen from industry, does it fulfill the expectations
JF van Staden, RI Stefan-van Staden
Instrumental Methods of Analysis. Modern Trends and Applications. 2-6 October, 2005 Iraklion, Crete, Greece

37. Diamond paste based electrochemical (bio)sensors
RI Stefan-van Staden, JF van Staden
Instrumental Methods of Analysis. Modern Trends and Applications. 2-6 October, 2005 Iraklion, Crete, Greece

38. Environmental analysis using diamond paste based electrochemical sensors
RI Stefan-van Staden, JF van Staden
3rd Black Basin Conference on Analytical Chemistry, 12th-14th of September 2005, Constantza, Romania

39. Applications of enantioselective sensors and biosensors in pharmaceutical and clinical analysis
RI Stefan-van Staden, JF van Staden, HY Aboul-Enein
The Fifth International Conference on Electrochemistry (ICE-V), 13th -16th of February 2006, Luxor, Egypt

40. Fullerenes – new chiral selectors for enantioanalysis
RI van Staden
International Conference on Chemistry and Chemical Ingineering, 28th-30th of May 2008, Timisoara, Romania

41. Studies of the interactions between the enantiomers of deprenyl and C_{60} and C_{70} fullerenes using molecular modeling and chiral sensors
RI van Staden
20th International Symposium on Chirality, 6th-9th of July 2008, Geneva, Switzerland.

42. New nanostructured materials based on porphyrins for the design of stochastic sensors
RI Stefan-van Staden, E. Fagadar-Cosma, J.F. van Staden, O. Radacina, S. Balasoiu, I. Balcu, M. Iorga
3rd International Conference on Biomaterials and Medical Devices - BIOMMEDD'2008, 13-16 November 2008, Bucharest, Romania.

43. The importance and essentiality of real-time intelligent interactive monitoring and control in medical, pharmaceutical and clinical fields with PAT
J.F. van Staden, RI Stefan-van Staden, I. Balcu
3rd International Conference on Biomaterials and Medical Devices - BIOMMEDD'2008, 13-16 November 2008, Bucharest, Romania.

44. Nanostructured glasses and powders based on hybrid silica materials incorporating 5,10,15-tris(3-hydroxy-phenyl)-20-(3,4-dimethoxy-phenyl)-porphyrin
E. Fagadar-Cosma, C. Enache, D. Vlascici, Gh. Fagadar-Cosma, R.I. Stefan-van Staden, H. Stadler, J.F. van Staden.
Nanotech Insight, 29th March – 2nd April 2009, Barcelona, Spain.

45. Determination of free-L-T_3 and free-L-T_4 from blood using the immunosensors/sequential injection analysis system
RI van Staden, J.F. van Staden, H.Y. Aboul-Enein, G.L. Radu, N. Mirica, I. Balcu, M.C. Mirica
Journées d'Electrochimie XIV-ème édition, 6 - 10 juillet 2009, Sinaia, ROUMANIE.

46. New stochastic microsensors based on nanostructured materials for molecular diagnosis
RI van Staden
Euroanalysis XV, Innsbruck, Austria, 6-10 September 2009.

47. New stochastic microsensors based on nanostructured manganese porphyrins for molecular diagnosis
RI van Staden
Instrumental Methods of Analysis. Modern Trends and Applications. 4-8 October, 2009 , Athens, Greece.

48. Multimode Sensors - A New Concept in Sensors' Technology
RI Stefan-van Staden
221st ECS Meeting, May 6-10, 2012, Seattle, WA, USA.

49. Enantioselective sensors for biomedical analysis
RI Stefan-van Staden
Chirality 2012, June 9-13, 2012, Dallas, TX, USA.

50. New stochastic sensors for biomedical applications
RI Stefan-van Staden
14 IMCS'2012. 14th International Meeting on Chemical Sensors. May 20-23, 2012, Nuremberg, Germany.

51. Single molecule detection in molecular diagnosis of hepatitis B
RI Stefan-van Staden
XIV Linz Winter Workshop 2012, 3-6 February 2012, Linz, Austria.

52. Simultaneous neurotransmitters analysis using microelectrodes based on porphyrins
RI Stefan-van Staden, I Moldoveanu, JF van Staden
4th EuCheMS Congres , 26-30 August 2012, Prague, Cehia.

53. New multimode sensors based on nanostrucured materials for simultaneous screening of biological fluids for specific breast cancer and hepatitis B biomarkers

RI Stefan-van Staden, M Enachescu
222nd Meeting of ECS, PRIME 2012 PACIFIC RIM MEETING ON ELECTROCHEMICAL AND SOLID-STATE SCIENCE, 7 - 12 October 2012, Honolulu, Hawai, USA.

54. Stochastic sensors for single molecule detection
RI Stefan-van Staden
RO'ICAC 2012, 1st International Conference on Analytical Chemistry, 18-22 September 2012, Targoviste, Romania.

55. New trends in the technology of micro and nanosensors for biomedical analysis
RI Stefan-van Staden
245th ACS Meeting, 7 - 11 April 2013, New Orleans, USA.

b. Postere

1. *Mexiletine Selective Membrane Electrode*
R.I. Stefan, M.S. Ionescu
The XIIth National Conference on Analytical Chemistry, Constanta, Romania, 22-24 September 1994.

2. *Metomidate - Sensing Electrode*
R.I. Stefan
National Symposium of Electrochemical Sensors and Biosensors, Cluj-Napoca, Romania, 28-29 September 1995.

3. *Amiodarone - Selective Membrane Electrode*
R.I. Stefan, H.Y. Aboul-Enein, G.E. Baiulescu
The XIIIth National Conference on Analytical Chemistry, Craiova, Romania, 23-25 May 1996.

4. *Some considerations concerning the use of ion-selective membrane electrodes in pharmaceutical analysis*
R.I. Stefan, G.E. Baiulescu
The XIIIth National Conference on Analytical Chemistry, Craiova, Romania, 23-25 May 1996.

5. *Moclobemide Selective Membrane Electrode and Its Pharmaceutical Applications*
R.I. Stefan, G.E. Baiulescu, **H.Y. Aboul-Enein**
Pittcon'96, Chicago, Ilinois, USA, 3-8 March 1996.

6. *Considerations Concerning the Use of Ion-Selective Membrane Electrodes in Pharmaceutical Analysis*
R.I. Stefan, G.E. Baiulescu
Euroanalysis IX , Bologna, Italy, 1-7 September 1996.

7. *Flecainide - Selective Membrane Electrodes*
R.I. Stefan, G.E. Baiulescu, **H.Y. Aboul-Enein**
Pittcon'97, Atlanta, Georgia, USA, 16-21 March 1997.

8. *Biosensor for the Enantioselective Analysis of S-Captopril*
R.I. Stefan, H.Y. Aboul-Enein, C. Bala, **G.L. Radu**
Biosensors'98, Berlin, Germany, June 1998.

9. *Biosensor for the Enantioselective Analysis of S-Enalapril and S-Ramipril*
R.I. Stefan, H.Y. Aboul-Enein, **G.L. Radu**
Biosensors'98, Berlin, Germany, June 1998.

10. *Biosensors for the Enantioselective Analysis of S-Cilazapril, S-Trandolapril, and S-Pentopril*
R.I. Stefan, H.Y. Aboul-Enein, G.L. Radu, G.E. Baiulescu
The XIVth National Conference on Analytical Chemistry, Piatra Neamt, Romania, September 1998.

11. *Biosensors for the Enantioselective Analysis of S-Perindopril*
R.I. Stefan, H.Y. Aboul-Enein, G.L. Radu
The XIVth National Conference on Analytical Chemistry, Piatra Neamt, Romania, September 1998.

12. *Comparison of flow and sequential system for fluoride assays in toothpaste and borehole water, using a F^--selective electrode*
R.I. Stefan, J.F. van Staden
The XIVth National Conference on Analytical Chemistry, Piatra Neamt, Romania, September 1998.

13. *Validation criteria for developing ion-selective membrane electrodes for analysis of pharmaceuticals*
R.I. Stefan, H.Y. Aboul-Enein
Drug Analysis '98, Brussels, Belgium, May 1998.

14. *The opportunity to use ion-selective membrane electrodes for dissolution tests*
R.I. Stefan, H.Y. Aboul-Enein
Drug Analysis '98. Brussels, Belgium, May 1998.

15. *Determination of urinary oxalate using oxalate-selective membrane electrodes*
R.I. Stefan, I. Draghici, **G.E. Baiulescu**
The 7th International Meeting on Chemical Sensors, Beijing, China, 27-30 July 1998.

16. *New theoretical concepts concerning the ion-selective membrane electrodes based on ion-pair complexes*
R.I. Stefan, J.F. van Staden
7th International Chemistry Conference in Africa, Durban, South Africa, 6-10 July 1998.

17. *Simultaneous analysis of S- and R-perindopril using amperometric biosensors*
J.F. van Staden, **R.I. Stefan**, H.Y. Aboul-Enein
7th International Chemistry Conference in Africa, Durban, South Africa, 6-10 July 1998.

18. *New amperometric immunosensors for drugs assay*
R.I. Stefan, H.Y. Aboul-Enein, G.L. Radu, G.E. Baiulescu
Euroanalysis 10, Basel, Switzerland, 6-11 September 1998.

19. *Quality, reliability and flexibility in analytical chemistry*
G.E. Baiulescu, **R.I. Stefan**
Euroanalysis 10, Basel, Switzerland, 6-11 September 1998.

20. *Comparison of flow and sequential injection systems for fluoride assays in toothpaste and borehole water, using a F^--selective electrode*
R.I. Stefan, J.F. van Staden
Euroanalysis 10, Basel, Switzerland, 6-11 September 1998.

21. *Simultaneous flow injection determination of calcium and fluoride in natural and borehole water with conventional ion-selective electrodes in series.*
R.I. Stefan, **J.F. van Staden**
International Conference on Flow Injection Analysis, Seattle, USA, August 1998.

22. *Comparison of flow and sequential system for fluoride assays in toothpaste and borehole water, using a F^--selective electrode*
R.I. Stefan, J.F. van Staden
Analitika '98, Midrand, South Africa, 12-14 October 1998.

23. *Evaluation of different SIA systems using an electrochemical sensor as detector*
J.F. van Staden, **R.I. Stefan**, S. Birghila
International Conference on Flow Injection Analysis, Prague, Czech Republic, June 1999.

24. *Developments in electrochemical sensors construction for chiral drugs assay*
R.I. Stefan, H.Y. Aboul-Enein, J.F. van Staden
International Symposium on Chiral Discrimination, Chicago, Ilinois, USA, July 1999.

25. *Flow injection systems for enantioselective analysis of chiral drugs*
J.F. van Staden, R.I. Stefan, H.Y. Aboul-Enein,
International Symposium on Chiral Discrimination, Chicago, Ilinois, USA, July 1999.

26. *Electrochemical sensors in the analysis of chiral drugs*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
37th IUPAC Congress, Berlin, Germany, August 1999.

27. *Simultaneous assay of enantiomers using sequential injection analysis-(bio)sensors systems*
R.I. *Stefan,* J.F. van Staden and H.Y. Aboul-Enein.
Pittcon'2000. New Orleans, LA, USA. 12-17 March 2000.

28. *The assay of S-Enalapril using an amperometric biosensor/SIA system*
JF. van Staden, **R.I. Stefan, E.B. Naidoo** and H.Y. Aboul-Enein
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

29. *Determination of S-Pentopril using an amperometric biosensor/sequential injection analysis system*
R.I. Stefan, L.V. Mulaudzi, E.B. Naidoo, H.Y. Aboul-Enein and J.F. van Staden
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

30. *On-line assay of S-Ramipril using an amperometric biosensor/sequential injection system*
R.I. Stefan, L.V. Mulaudzi, H.Y. Aboul-Enein and J.F. vanStaden
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

31. *Simultaneous assay of T3 and T4 using sensors/SIA systems*
R.I. Stefan, J.F. vanStaden and H.Y. Aboul-Enein
8th International Conference on Flow Analysis, Warsaw, Poland, 25-29 June 2000.

32. *A bienzymatic sensor for proteins assay in milk*
R.I. Stefan, **M. Makhafola**, J.F. van Staden
8th International Meeting on Chemical Sensors, Basel, Switzerland, 3-5 July, 2000.

33. *Bienzymatic sensor for proteins assay in milk*
R.I. Stefan, M. Makhafola, J.F. van Staden
Euroanalysis XI, Lisbon, Portugal, 3-9 September 2000.

34. *Design and use of electrochemical sensors in enantioselective high throughput screening of drugs*

R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
Euroanalysis XI, Lisbon, Portugal, 3-9 September 2000.

35. *The assay of S-enantiomers of enalapril, ramipril and trandolapril using an amperometric biosensor/sequential injection analysis system*
J.F. van Staden, R.I. Stefan, H.Y. Aboul-Enein
ISCD 12, The International Symposium on Chirality, Chamonix, Mont Blanc, France, 24-28 September 2000.

36. *Design and use of electrochemical sensors in enantioselective high throughput screening of drugs*
R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
38th IUPAC Congress, World Chemistry Congress, Brisbane, Australia, 1-6 July 2001.

37. *Selectivity and specificity in analytical chemistry*
J. Vessman, **R.I. Stefan**, **J.F. van Staden**, **K. Danzer**, W. Lindner, **D.T. Burns**, **A. Fajgel**, **H. Muller**
38th IUPAC Congress, World Chemistry Congress, Brisbane, Australia, 1-6 July 2001.

38. *Information essential for characterizing a flow-based analytical system*
E.A.G. Zagatto, **J.F. van Staden**, N. Maniasso, **R.I. Stefan**, G.D. Marshall
38th IUPAC Congress, World Chemistry Congress, Brisbane, Australia, 1-6 July 2001.

39. *Selectivity and specificity in analytical chemistry*
J. Vessman, **R.I. Stefan**, **J.F. van Staden**, **K. Danzer**, W. Lindner, **D.T. Burns**, **A. Fajgel**, **H. Muller**
41st IUPAC General Assembly, Brisbane, Australia, 29 June - 8 July 2001.

40. *Information essential for characterizing a flow-based analytical system*
E.A.G. Zagatto, **J.F. van Staden**, N. Maniasso, **R.I. Stefan**, G.D. Marshall
41st IUPAC General Assembly, Brisbane, Australia, 29 June - 8 July 2001.

41. *On-line simultaneous determination of S and R perindopril using amperometric biosensors as detectors in flow systems*
J.F. van Staden, R.I. Stefan, L.V. Mulaudzi, H.Y. Aboul-Enein
ISCD 13, 13th International Symposium on Chirality, Orlando, Florida, USA, 15-17 July 2001.

42. *On-line spectrophotometric speciation of Cr(VI) and Cr(III) by sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications. Ioannina. Greece. 5 - 8 September 2001.

43. *On-line speciation of iron(II) and iron(III) using a spectrophotometric sequential injection system*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications. Ioannina. Greece. 5 - 8 September 2001.

44. *Spectrophotometric determination of chloride in mineral and drinking waters using sequential injection analysis*
J.F. van Staden, R.I. Stefan and S.I. Tlowana
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications. Ioannina. Greece. 5 - 8 September 2001.

45. *Determination of zinc in pharmaceutical products using a sequential injection system*
J.F. van Staden, R.I. Stefan, M. Tsanwani
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications.
Ioannina. Greece. 5 - 8 September 2001.

46. *On-line determination of hydrochloric acid in process effluent streams by potentiometric sequential injection acid-base titration*
J.F. van Staden, R.I. Stefan, M.G. Mashamba
IMA'2001. Instrumental Methods of Analysis. Modern trends and Applications. Ioannina. Greece. 5 - 8 September 2001.

47. *On-line dilution and determination of concentrated hydrochloric acid using an SIA titration system*
J.F. van Staden, R.I. Stefan, M.G. Mashamba
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

48. *Determination of boron as boric acid in eye lotions using an SIA system*
J.F. van Staden, R.I. Stefan, M. Tsanwani
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

49. *Determination of paracetamol in pharmaceutical samples using an SIA system*
J.F. van Staden, R.I. Stefan, M. Tsanwani
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including
related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

50. *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, H.Y. Aboul-Enein
ICFIA'2001. 11th International Conference on Flow Injection Analysis, including
related techniques. Chiang Mai. Thailand. 16 - 20 December 2001.

51. *Simultaneous assay of L-T_3, L-T_4 and D-T_4 using a sensor/SIA system*
J.F. van Staden, **R I Stefan,** H Y Aboul-Enein
IMCS'2002. 9th International Meeting on Chemical Sensors. Boston, USA. 7-10 July 2002.

52. *Determination of azidothymidine using an immunosensor/SIA system*

H.Y. Aboul-Enein, **R.I. Stefan, J.F. van Staden**
IMCS'2002. 9th International Meeting on Chemical Sensors. Boston, USA. 7-10 July 2002.

53. *Simultaneous determination of bicarbonate and total carbonate by titration using automated sequential injection analysis with spectrophotometric detection*
P.J. Fletcher, **J.F. van Staden,** R.I. Stefan
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

54. *On-line sequential injection analysis of bromine and bromide in effluent streams by spectrophotometric detection*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

55. *On-line spectrophotometric speciation of Mn(II) and Mn(VII) by sequential injection analysi.*
L. V. Mulaudzi, J.F. van Staden, R.I. Stefan
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

56. *Flow and sequential injection analysis as sampling processing systems for the simultaneous assay of enantiomers*
J.F. van Staden, R.I. Stefan
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

57. *Determination of L- and D-methotrexate using amperometric biosensors*
R.I. Stefan, R.G. Bokretsion, J.F. van Staden, H.Y. Aboul-Enein
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

58. *Diamond paste based electrode for the determination of Fe (II)*
R.I. Stefan, S.G. Bairu, J.F. van Staden
Euroanalysis XII. Division of Analytical Chemistry of the Federation of European Chemical Societies and Gesellschaft Deutcher Chemiker. Dortmund. Germany. 8 - 13 September 2002.

59. *Speciation by sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

60. *On-line spectropohotometric speciation of Mn(II) and Mn(VII) by sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

61. *On-line sequenial injection analysis of bromine and bromide in effluent streams by spectrophotometric detection*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

62. *Diamond paste-based electrode for the determination of Fe(II)*
S.G. Bairu, R.I. Stefan and J.F. van Staden
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

63. *Determination of L- and D-enantiomers of methotrexate using amperometric biosensors*
R.G. Bokretsion, R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002 (selected for oral presentation).

64. *Simultaneous Detection of L- and D-methotrexate using a sequential injection analysis/amperometric biosensors system*
R.G. Bokretsion, R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
ANALITICA '2002. International Symposium on Analytical Science. S A Chemical Institute. Stellenbosch. 4 -10 December 2002.

65. *Determination of bicarbonate and total carbonate by titration using automated sequential injection analysis with spectrophotometric detection*
P.J. Fletcher, J.F. van Staden, R.I. Stefan
36th Convention. S A Chemical Institute. Port Elizabeth. 1 - 5 July 2002.

66. *On-line spectrophotometric speciation of Cr(VI) and Cr(III) by sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
36th Convention. S A Chemical Institute. Port Elizabeth. 1 - 5 July 2002.

67. *On-line speciation of iron(II) and iron(III) using a spectrophotometric sequential injection system*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
36th Convention. S A Chemical Institute. Port Elizabeth. 1 - 5 July 2002.

68. *Flow injection analysis of bromine with spectrophotometric detection*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

69. *On-line spectrophotometric determination of bromine using sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan

Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

70. *Determination of ethanol in beverages using sequential injection analysis with spectrophotometric detection*
P.J. Fletcher, J.F. van Staden, R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

71. *Determination of bicarbonate and total carbonate using automated sequential injection analysis with spectrophotometric detection*
P.J. Fletcher, J.F. van Staden, R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

72. *On-line simultaneous determination of the activity of ∀- and ∃-amylase by sequential injection analysis*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

73. *On-line spectrophotometric speciation of Mn(II) and Mn(VII) by sequential injection analysis*
L.V. Mulaudzi, **J.F. van Staden,** R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

74. *On-line sequential injection analysis of bromine and bromide in effluent streams by spectrophotometric detection*
L.V. Mulaudzi, J.F. van Staden, R.I. Stefan
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

75. *Simultaneous detection of L- and D-methotrexate using a sequential injection analysis/amperometric biosensors system*
R.G. Bokretsion, R.I. Stefan, J.F. van Staden, H.Y. Aboul-Enein
Flow Analysis IX. Royal Australian Chemical Institute and IUPAC. Geelong. Australia. 17 - 21 February 2003.

76. *Diamond paste based electrodes for the determination of Ag(I)*
R.I. Stefan, S.G. Bairu, **J.F. van Staden**
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

77. *Diamond paste based electrodes for the determination of Cr(III) in pharmaceutical compounds*
R.I. Stefan, S.G. Bairu, **J.F. van Staden**
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

78. *Diamond paste based electrodes for the determination of iodide in vitamins and table salt*
R.I. Stefan, S.G. Bairu, **J.F. van Staden**
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

79. *Maltodextrins as new chiral selectors for the design of enantioselective potentiometric membrane electrodes for the assay of L-proline*
R.I. Stefan, **K. Ozoemena**
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

80. *Biosensors for the enantioselective analysis of pipecolic acid*
R.I. Stefan, R.M. Nejem, **J.F. van Staden**, H.Y. Aboul-Enein
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

81. *Enantioselective potentiometric membrane electrodes based on ∀-, ∃-, and (-cyclodextrins as chiral selectors for the assay of L-proline*
K. Ozoemena, R.I. Stefan
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

82. *Simultaneous determination of creatine and creatinine using amperometric biosensors*
R.I. Stefan, R.G. Bokretsion, J.F. van Staden, H.Y. Aboul-Enein
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

83. *Biosensors for the determination of ortho-acetyl-L-carnitine. Their utilization as detectors in a sequential injection analysis system*
R.I. Stefan, R.G. Bokretsion, J.F. van Staden, H.Y. Aboul-Enein
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23-27 September 2003.

84. *Spectrophotometric determination of bromate by sequential injection analysis*
L .V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23 - 27 September 2003.

85. *On-line simultaneous determination of the activity of ∀- and ∃-amylase by sequential injection analysis*
L.V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23 - 27 September 2003.

86. *Simultaneous determination of L- and D-carnitine using a sequential injection analysis/amperometric biosensor system*
R.I. Stefan, R.G. Bokretsion, **J.F. van Staden**, H.Y. Aboul-Enein
IMA'2003. The 3rd International Conference of Instrumental Methods of Analysis. (Modern trends and Applications). Thessaloniki. Greece. 23 - 27 September 2003.

87. *On-line simultaneous determination of the activity of α- and β-amylase by sequential injection analysis*
L.V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

88. *Spectrophotometric determination of bromate by sequential injection analysis*
L.V. Mulaudzi**, J.F. van Staden**, R.I. Stefan

ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

89. *On-line spectrophotometric determination of iodate by sequential injection analysis*
L.V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

90. *Flow injection analysis of bromine with spectrophotometric detection*
L.V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

91. *On-line spectrophotometric determination of bromine using sequential injection analysis*
L.V. Mulaudzi, **J.F. van Staden**, R.I. Stefan
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

92. *Biosensors for the determination of ortho-acetyl-L-carnitine. Their utilization as detectors in a sequential injection analysis system*
R.I. Stefan, R.G. Bokretsion, **J.F. van Staden**, H.Y. Aboul-Enein
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

93. *Biosensors for the enantioselective analysis of pipecolic acid*
R.I. Stefan, R.M. Nejem**, J.F. van Staden**, H.Y. Aboul-Enein
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

94. *On-line assay of the S-enantiomer of elanapril, ramipril and pentopril using a sequential injection analysis/amperometric biosensor system*
R.I. Stefan, **J.F. van Staden**, C. Bala, H.Y. Aboul-Enein
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

95. *Simultaneous determination of L- and D-carnitine using a sequential injection analysis/amperometric biosensor system*
R.I. Stefan, R.G. Bokretsion, **J.F. van Staden**, H.Y. Aboul-Enein
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

96. *Simultaneous determination of creatine and creatinine using amperometric biosensors*
R.I. Stefan, R.G. Bokretsion, **J.F. van Staden**, H.Y. Aboul-Enein.
ICFIA'2003. 12th International Conference on Flow Injection Analysis, including related techniques. Merida. Venezuela. 7 - 13 December 2003.

97. *Sequental injection spectrophotometric determination of trace amounts of iodide by its catalytic effect on the 4,4'-methylenebis(N,N-dimethylaniline)-chloramine-T*
Z.O. Tesfaldet, J.F. van Staden and R.I. Stefan
37th SACI Convention. Chemistry for a better life. Pretoria. 4 - 9 July 2004.

98. *Sequental injection analysis of formaldehyde*
S. Matlhodi, J.F. van Staden and R.I. Stefan
37th SACI Convention. Chemistry for a better life. Pretoria. 4 - 9 July 2004.

99. *Sequential injection spectrophotometric determination of calcium in pharmaceutical preparations using o-cresolphthalein complexone as complexing agent*
J.F. van Staden, Z.O. Tesfaldet, R.I. Stefan, **H.Y. Aboul-Enein**
13th International Symposium on Flow Injection Analysis including related techniques
(ICFIA 2005), 24-29 April 2005. Las Vegas, Nevada USA

100. *Sequential Injection Spectrophotometric Determination of Ritodrine Hydrochloride Using 4-Aminoantipyrine*
J.F. van Staden, N.W. Beyene, R.I. Stefan, **H.Y. Aboul-Enein**
13th International Symposium on Flow Injection Analysis including related techniques
(ICFIA 2005), 24-29 April 2005. Las Vegas, Nevada USA

101. *Enantioanalysis of ketoprofen based on its molecular interaction with C_{60} fullerenes*
R.G. Bokretsion, R.I. Stefan-van Staden
PITTCON'2007, February 2007, Chicago, IL, USA

102. *Enantioanalysis of ketoprofen based on its molecular interaction with C_{60} fullerenes*
R.I. Stefan-van Staden, R.G. Bokretsion
20th International Symposium on Chirality, 6th-9th of July 2008, Geneva, Switzerland.

103. *Enantioanalysis of butaclamol using enantioselective, potentiometric electrodes*
R.I. Stefan-van Staden, J.F. van Staden, H.Y. Aboul-Enein, M.C. Mirica, I. Balcu
20th International Symposium on Chirality, 6th-9th of July 2008, Geneva, Switzerland.

104. *Porphyrins as new nanostructured materials for the design of stochastic sensors*
R.I. Stefan-van Staden, E. Fagadar-Cosma, O. Radacina, J.F. van Staden, S. Balasoiu, I. Balcu, M. Iorga.
Nanotech Insight, 29th March – 2nd April 2009, Barcelona, Spain.

24. Indrumator stiintific pentru BSc, Master, Doctorat, Postdoc

a. Studenti care au terminat studiile.

Numele studentului	Titlul/Titlul tezei/data obtinerii titlului	Indrumator	Co-indrumator	Durata studiului (ani)
A Alecu	BSc/Utilization of ion-selective, membrane electrodes in pharmaceutical anaysis/1995	RI Stefan	GE Baiulescu	2
FD Munteanu	BSc/Lauryl sulfate as new ligand in the design of ion-selective, membrane electrodes/1996	RI Stefan	GE Baiulescu	2
C Radoi	BSc/Determination of Vitamin C in fruits using HPLC/1996	RI Stefan	-	2
G Mangiurea	BSc/Determination of antiarrhythmic drugs using ion-selective membrane electrodes/1997	RI Stefan	-	2
J Mangiurea	BSc/In vitro dissolution tests of pharmaceutical products using ion-selective membrane electrodes/1997	RI Stefan	-	2
M Diaconu	BSc/Determination of antidepressive drugs using ion-selective, membrane electrodes/1997	RI Stefan	-	2
A Alecu	MSc/Ion-selective membrane electrodes: membrane potential development/1996	RI Stefan	GE Baiulescu	1
K Naidoo	MSc/Electrochemical behaviour of boron-doped diamond electrodes/2001	RI Stefan	JF van Staden	2/Distinctie
MG Mashamba	MSc/Process potentiometric sequential injection titrations/2002	JF van Staden	RI Stefan	2
RG Bokretsion	MSc/On-line process control in pharmaceutical industry/2003	RI Stefan	JF van Staden	1/Distinctie
SG Bairu	MSc/Diamond paste based electrodes for inorganic analysis/2003	RI Stefan	JF van Staden	1/Distinctie
ZO Tesfaldet	MSc/Sequential injection analysis of cations in pharmaceutical products/2005	JF van Staden	RI Stefan	2/Distinctie
TR Mashile	MSc/Enantioanalysis of pharmaceutical compounds/2006	RI Stefan	-	1/Distinctie
L Holo	MSc/Enantioselective, potentiometric membrane electrodes for enantioanalysis of amino acids of clinical and pharmaceutical importance/2006	RI Stefan	-	1/Distinctie
LA Gugoasa	MSc/Biosensors based on DNA for the assay of neurotransmitters/2012	A Ciucu	RI van Staden	2
RM Nejem	PhD/ Enantioselective sensors and biosensors for clinical analysis/2004	RI Stefan	-	3/Calificativ-exceptional
I Moldoveanu	PhD/Screenng systems for early detection of cancer and hepatitis/2015	RI van Staden	-	3/Calificativ-exceptional
LA Gugoasa	PhD/Multimode screening systems for obesity/2015	RI van Staden	-	3/Calificativ-exceptional
KI Ozoemena	Postdoc (Claude Harris Leon Foundation fellowship)/Design and construction of novel ion and enantioselective membranes for the development of high performance electrochemical sensors	RI Stefan	-	1
AA Rat'ko	Postdoc/Studies on the behaviour of enantioselective, potentiometric membrane electrodes	RI Stefan	-	2
B Lal	Postdoc/Enantioselective, potentiometric membrane electrodes based on fullerens	RI Stefan	-	2
K Sharma	Postdoc/Computational studies of molecular interactions	RI Stefan	-	1

B Calenic	Postdoc/ **Tissue engineered oral mucosa developed from keratinocyte stem cells using specific substrate topographies**	RI Stefan-van Staden	-	2

3.2. Studenti doctoranzi

Numele studentului	Titlul tezei	Data inceperii studiilor
Ionela Raluca Comnea	PhD/Screening systems for early detection of lung cancer	October 2013
Amalia Gabriela Diaconeasa	PhD/Detection of specific biomarkers for ageing related illnesses	October 2013
Grigorina Mitrofan	PhD/Investigation of thyroid function and its associated pathologies using stochastic sensing	October 2014
Ahmed Jassim Muklive Al-Ogaidi	PhD/Fast detection of colon cancer biomarkers	October 2014
Ruxandra Ilie	PhD/Detection of biomarkers specific to gastric cancer	October 2016
Ioana Popa	PhD/Detection of biomarkers associated to early onset of diabetes	October 2016

25. Membru in Societati nationale si internationale

- **Reprezentant al Romaniei in Divizia de Chimie Analitica, EUCHEMs**
- **Leader al Bioanalytical Study Group din cadrul Diviziei de Chimie Analitica, EUCHEMs**
- **Electrochemistry Society, USA – membru, membru al Comitetului Executiv si Member-at-Large in Divizia de Senzori, din Octombrie 2012**
- **Presedinta a Filialei Internationale din Romania a Societatii Americane de Chimie (Romania Chapter of American Chemical Society)**
- Societatea de Chimie din Romania - membru
- International Society of Electrochemistry - membru
- International Society of Bioelectrochemistry - membru
- The South African Chemical Institute - membru
- American Chemical Society - membru
- The Israeli Metrological Society - membru
- **IUPAC – Fellow.**
- **Secretara, Comisia V.1, Aspecte generale ale chimiei analitice, IUPAC 1999-2001**.
- Phoenix – Romanian Association of University Chemists – - membru fondator.
- Romanian Society of Analytical Chemistry - fost membru.

Rol in Comitete Stiintifice:

- Comitet stiintific al The XIIIth National Conference on Analytical Chemistry, Craiova, Romania, 1996.
- Comitet stiintific al Chemometrics Workshop, Timisoara, Romania, 1997.
- Comitet stiintific al The XIVth National Conference on Analytical Chemistry, Piatra Neamt, Romania, 1998.
- Co-secretara, 7th International Conference on Kinetics in Analytical Chemistry, Bucharest, Romania, 2001.
- Co-secretara, ICFIA'2003, Merida, Venezuela, 2003.
- Membra a comitetului de program al 10th International Meeting on Chemical Sensors, July 11-14, 2004. Tsukuba, Japan.
- Chair si membra a comitetului stiintific – SENSOR DEVICES 2010, Venetia, Italia, iulie 2010; SENSOR DEVICE 2011, Nice, France, august 2011; SENSOR DEVICES 2012, Roma, Italia, august 2012; SENSOR DEVICES 2013, Barcelona, Spain.
- Chairman, RO'ICAC 2012, 1st International Conference on Analytical Chemistry, Targoviste, Romania, 2012.
- Chairman, RO'ICAC 2014, 2nd International Conference on Analytical Chemistry, Targoviste, Romania, 2014.
- Chairman, RO'ICAC 2016, 3rd International Conference on Analytical Chemistry, Iasi, Romania, 2016.

26. Membra a birourilor editoriale

- Din 2000 "Preparative Biochemistry & Biotechnology" (Marcel Dekker, Inc.)
- Din 2003 "Sensor Letters" (American Scientific Publishers)
- Din 2005 "Sensors & Transducers Journal"
- Senior Member al International Advisory Board of "Encyclopedia of Sensors" (American Scientific Publishers, 2004)

- Din 2012 "International Journal on Advances in Systems and Measurements" (IARIA Journals)
- Din 2012 "Journal of Membrane and Separation Technology" (Life Sciences, Global)

27. Vizite la universitati ca profesor/cercetator

- University "Tor Vergata", Rome (Italy), 1996
- Universitatea Yamagata (Japonia), 2015 – Conferinta de presa impreuna cu rectorul universitatii.
- University of Antwerpen (Belgium), 1998
- University of Vienna (Austria), 1999, 2000.
- Universitatea din Bucuresti (Romania), 2000, 2001, 2002, 2004, 2005.

28. Management si administratie

- **Secretara a Comisiei V.1 General Aspects of Analytical Chemistry, IUPAC, 1998-2001.**
- **Leader al Bioanalytical Study Group din cadrul Diviziei de Chimie Analitica, EUCHEMs**
- Coordonator de curs/Universitatea din Pretoria CMY 200 – 2002, 2005.
- Organizator in colaborare cu SwissLab a doua seminarii: SPR & Biosensors seminar (26/03/2003, 11/2004) si Corrosion and Battery seminar (27/03/2003).
- Membra a comitetelor de cercetare si social ale Catedrei de Chimie din cadrul Universitatii din Pretoria.
- Organizatoare/initiatoare a Zilei Cercetarii in Cadra de Chimie din cadrul Universitatii din Pretoria, 2005 si 2006
- Sef de Laborator al Laboratorului de Electrochimie si PATLAB Bucuresti, INCEMC, Timisoara, din 2007.
- Director stiintific al INCEMC, Timisoara, 03.2014-07.2015.
- **Electrochemistry Society, USA – membru, membru al Comitetului Executiv si Member-at-Large in Divizia de Senzori, din Octombrie 2012**
- **Presedinta a Romanian Chapter of American Chemical Society**

29. Referent

Referent pentru reviste ISI, cum ar fi: Talanta, Sensors and Actuators B, Journal of American Chemical Society, Bioelectrochemistry, Chirality, Electrochemical Communications, Journal of Electroanalytical Chemistry, Journal of Solid State Electrochemistry, Electrochimica Acta, Luminescence, Trends in Biotechnology, Process Biochemistry, Analytica Chimica Acta, Analytical and Bioanalytical Chemistry, Analytical Letters, Biosensors & Bioelectronics, Chromatographia, Biomedical Chromatography, Sensors, Journal of Pharmaceutical and Biomedical Analysis, Central European Journal of Chemistry, Central European Journal of Chemistry, The Analyst, Water SA, Applied Surface Sciences, Chemistry and Ecology Reviews, Desalination, International Journal of Physical Sciences, Revista de Chimie (Bucharest), Acta Chimica Slovenica, South African Journal of Chemistry.

Membru in comisii de doctorat:

- Universitatea "Politehnica", Bucuresti, Romania
- Universitatea de Medicina si Farmacie "Carol Davila", Bucuresti
- Universitatea din Pretoria, Africa de Sud
- Universitatea Rhodes, Africa de Sud
- Universitatea "Gheorghe Asachi", Iasi, Romania

30. Premii si titluri

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***
2002 - ***Raikes Medal, South African Chemical Institute***
2003 - together with Dr KI Ozoemena, ***Claude Harris Leon Foundation award***
2004 – one of the 5 finalist for the Women in Science award – South Africa
2009 – Premiul II, Sectiunea Cercetare, Gala Premiilor in Educatie, Fundatia Dinu Patriciu
2010 – **Cetatean de onoare al Orasului Campulung-Muscel**
2010 – **Cetatean de onoare al judetului Arges**

2011, 2012 – Placheta Orasului Campulung-Muscel
2010 – Diploma de Excelenta pentru activitatea de inventica, ANCS
2010 – Diploma de Excelenta pentru reprezentarea cu success a Romaniei la Salonul International de Inventii de la Geneva, 2010, ANCS
2012 – Medalia omagiala a salonului PRO INVENT, **Ordinul Stiintific Gogu Constantinescu in grad de Comandor si medalia Gogu Constantinescu pentru rezultate remarcabile obtinute in activitatea de cercetare stiintifica, de promovare a inventicii, precum si pentru contributia la recunoasterea internationala a creativitatii romanesti**.
2012 – Membru de onoare al Asociatiei Bolnavilor de Cancer
2013 – Membru de onoare al Ligii Studentilor Romani din Strainatate
2013 – Premiu She Business pentru inovare

Medalii si premii speciale in competitii internationale

2008 – Medalie de aur **si** Diploma of Excelenta pentru brevetul cu titlul: **"***Procedeu de realizare a senzorilor stocastici pe baza de porfirine si pasta de diamant sau grafit pentru determinarea acidului ascorbic la nivel molecular"* **la AI** 2-lea Congres International al Cercetatorilor si Inventatorilor din Romania**, 11-12 decembrie 2008, Bucuresti, Romania.**
2009 – Medalia Pro Invent si Diploma de Excelenta; Diploma de Excelenta a Societatii Inventatorilor din Romania, pentru brevetul cu titlul: *Procedeu de realizare a senzorilor stocastici pe baza de porfirine si pasta de diamant sau grafit pentru determinarea acidului ascorbic la nivel molecular"* la **Pro Invent,** 24-27 martie 2009, **Cluj-Napoca, Romania.**
2009 – Medalie de aur si Premiul Arca al Societatii Inventatorilor din Croatia, pentru brevetul cu titlul: "*Procedeu de realizare a senzorilor stocastici pe baza de porfirine si pasta de diamant sau grafit pentru determinarea acidului ascorbic la nivel molecular"* la **37eme Salon International des Inventions des Techniques et Produit Nouveaux**, 1-5 Aprilie 2009, **Geneva**, **Elvetia**.
2009 – Medalie de aur **si** Premiul Federatiei Asociatiilor Inginerilor din Polonia – NOT, pentru **brevetul** cu titlul: **"*Procedeu de realizare a senzorilor stocastici pe baza de porfirine si pasta de diamant sau grafit pentru determinarea acidului ascorbic la nivel molecular"* la** International Warsaw Invention Show, IWIS 2009, **1-3 iunie 2009,** Varsovia, Polonia.
2009 – Medalie de aur **si** Premiul Technopol Moscova pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la **IX** Moscow International Salon of Innovations and Investments, 2**6-29 august 2009**, Moscova, Federatia Rusa.
2009 – Placheta de argint pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la ARCA 2009**, 15-19 septembrie 2009,** Zagreb, Croatia
2009 – Medalie de aur **si** Premiul ARCA de Excelenta pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la Inventika, **28-31 septembrie 2009**, Bucuresti, Romania.
2009 – Medalie de aur cu felicitari din partea juriului **si** Cupa AGEPI a Agentiei de Proprietate Intelectuala din Moldova pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la EUREKA 2009, **19-21 noiembrie 2009**, Bruxelles, Belgia.
2010 – Medalie de aur cu felicitari din partea juriului **si** Diploma de excelenta**,** pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la **PRO INVENT 2010**, **16-19 martie 2010**, Cluj-Napoca, Romania.
2010 – Premiul (medalia de aur) Organizatiei Mondiale pentru Proprietate Intelectuala (OMPI) pentru cea mai buna femeie inventatoare, Medalia AGEPI si Medalia de Aur cu Felicitari din partea juriului pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la **38e Salon International des Inventions des Techniques et Produit Nouveaux**, 21-25 Aprilie 2010, Geneva, **Elvetia**.
2010 – Premiul al-II-lea, Categoria "Inventii"**,** pentru **brevetul** cu titlul: **"*STOC-µSENS-CMD"* –** diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la Bright fair 2010, World Forum of Researchers and Inventors, 8-10 Octombrie 2010, Bucharest, Romania.
2010 – Premiul Societatii Inventatorilor din Romania, pentru **brevetul** cu titlul: diagnosticarea cancerului la nivel molecular inainte ca pacientul sa fie bolnav clinic**,** la Targul International de Inventii Invent-Invest, 23-26 Noiembrie 2010, Iasi, Romania.
2011 – Premiul Mare al Universitatii Tehnice din Cluj, pentru **brevetul** cu titlul: DOT sensor enantioselectiv**,** la PRO INVENT, 22-25 Martie 2011, Cluj-Napoca, Romania.
2011 – Premiul Mare al Asociatiei Inventatorilor din Europa si Medalia de Aur **pentru brevetul** cu titlul: DOT sensor enantioselectiv**,** la **39 Salon International des Inventions des Techniques et Produit Nouveaux**, 6-10 Aprilie 2010, Geneva, **Elvetia**.
2012– Medalia omagiala a salonului PRO INVENT, Ordinul Stiintific Gogu Constantinescu in grad de Comandor si medalia Gogu Constantinescu pentru rezultate remarcabile obtinute in activitatea de cercetare stiintifica, de promovare a inventicii, precum si pentru contributia la recunoasterea internationala a creativitatii romanesti.
2010 – Premiul pentru Stiinta si Viata, Revista VIP
2010 – Premiul Nationala Internationala, National TV
2010 – Premiul Zece pentru Romania pentru cercetare, Realitatea TV
2010 – Premiul Omul Anului al Revistei Argesul
2010 – Premiul pentru Cercetare, Gala Femei de Succes
2011 – Premiul Femeia Anului, Revista Avantaje

2011 – Premiul Radio Romania Cultural, Sectiunea Cercetare
2011 – Premiul Omul anului, Gala premiilor de excelenta "DEMOS T.N.", Targu Neamt 2011

31. Alte activitati profesionale

- Expert evaluator si membra in panel pentru **ANCS, UEFISCDI - Romania, National Research Foundation- Africa de Sud, Bulgarian National Research Found, Portugalia, Czech Republic – research projects.**
- **de Beers Research Center, Johannesburg, February 2001 -** Invited lecture**.**
- **SACI,** Raikes Medal Lecture**, February 2003.**
- **TEDx Bucuresti 2010; TEDx Eroilor Cluj-Napoca 2011.**
- Conferinte invitate la diferite universitati**, University of Vienna; Wits University; Universitatea din Bucuresti; University of Antwerpen; Universitatea Babes Bolyai, Cluj; Centrul de Senzori si Actuatori,** UC at Berkeley, USA**.**
- Membra in juriu pentru concursul national de fotografie**: SA Science Lens, South Africa; Gala Premiilor in Educatie, Sectiunea Cercetatorul Anului, Fundatia Dinu Patriciu, 2011; Studentul anului - organizat de Liga Studentilor Romani din Strainatate; Bursele L-Oreal Unesco Romania, 2012; membra in juriul pebtru acordarea premiului pentru cel mai bun poster – sectiunea senzori la conferintele Societatii de Electrochimie (SUA); membra in juriul pentru acordarea premiilor pentru cele mai bune lucrari prezentate in cadrul conferintei SmaSys, 2015, Japonia.**
- **Cursuri tinute la invitatia unor societati profesionale: Octombrie 2011 – doua cursuri (domeniul senzori electrochimici pentru analiza clinica si farmaceutica) sustinute la invitatia ACS si ECS la San Francisco, USA; Mai 2012 – curs (in domeniul enantionalizei clinice) sustinut la invitatia ECS la Seattle (USA); Septembrie 2012 – curs (in domeniul calitatii si fiabilitatii in analiza chimica) sustinut la invitatia DAC a EUCHEMs la Belgrad (Serbia) in cadrul conferintei EUROANALYSIS; Mai 2016 – curs (in domeniul micro si nanosenzorilor) sustinut la invitatia ECS (Denver, USA).**
- **Invitata pentru interviuri in direct la SABC Africa, programul 180 degrees si Radio fm 95.9mHz - Johannesburg, 26 July 2004, Africa de Sud.**
- **Invitata pentru interviu la Radio Romania Actualitati, Cultural, TVR, ProTV, Realitatea, Trinitas, B1, Antena, Kanal D, TVRM, Money Channel .**
- **Recitaluri de pian:** Bucuresti, Timisoara, Campulung-Muscel, Piatra Neamt, San Francisco (USA), Linz (Austria).
- Compozitiile muzicale au fost difuzate la Radio Romania Cultural.

32. Proiecte de cercetare

Castigate in calitate de director de proiect:

- *"Electrochemical sensors for bioanalysis"*, grant acordat de Fundatia Nationala de Cercetare din Africa de Sud, perioada 2001-2006,
- PNII, Parteneriate in domenii prioritare, *"Senzori si microsenzori bazati pe porfirine pentru analiza compusilor farmaceutici, a compusilor de importanta clinica si a alimentelor"*, CNMP, perioada octombrie 2007 – septembrie 2010, 2000000lei.
- PNII, Idei, "Microsenzorii stocastici ca noi instrumente de masurare a substantelor de importanta biologica" UEFISCDI, perioada octombrie 2011 – septembrie 2014, 1250000lei
- PNII, Parteneriate, Senzori multimode pentru analiza biomedicala, UEFISCDI, 2014-2017, 1000000lei

- PNIII – PCE – 2017-2019 – Diagnosticul precoce al diabetului
- **ERC-like project, "Stochastic approach for early diagnosis of cancer", UEFISCDI, perioada iulie 2012 – iunie 2014, 1500000lei**
- **Responsabil de proiect, FP7, DENAMIC, „Developmental neurotoxicity assessment of mixtures in children", CE, 70000Euro**
- Responsabil de proiect din partea INCEMC, PED 102/2017, Senzori bazati pe graphene pentru determinarea timpurie a leucemiilor, 300000lei
- Bilateral Romania-Cipru, **„**Enantioanaliza compusilor de importanta clinica utilizand microsenzorii si cromatografia electrocinetica micelara**"**, mai 2010-aprilie 2012, si 2014-2015, ANCS
- Bilateral Romania-Republica Moldova, „Detectie si inhibare a cancerului la nivel molecular", septembrie 2010-noiembrie 2012, ANCS.

33. Activitate didactica

Cursuri/seminarii/laboratoare:

a. Facultatea de Chimie, Universitatea Bucuresti 1992-1998 – Curs de metode de separare si analiza de urme (anul IV, sectia Chimie), laboratoare anii I-V.
b. Departamentul de Chimie, Universitatea din Pretoria 2000-2006 – Cursuri, seminarii, laboratoare in domeniile chimie generala si chimie analitica, anul I – chimie, biochimie, inginerie (clase cu 50 – 700studenti); Curs de chimie analitica, anul II (coordonatorul cursurilor de chimie la anul II de studii); Curs de senzori electrochimici la anul IV (Hons).
c. Indrumator pentru lucrarile de diploma si MSc – Facultatea de Chimie, Universitatea din Bucuresti 1992-1998.
d. Indrumator pentru MSc si conducator de doctorat – Universitatea din Pretoria 1999-2006.
e. Din decembrie 2013, conducator de doctorat - Universitatea Politehnica din Bucuresti.

Publicatii: Caiete de lucrari practice pentru student, anii I si II – chimie analitica – publicate de Editura Universitatii din Pretoria.