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Date biografice

Perioada	Pozitia
2013	Abilitare in chimie si inginerie chimica, Titlul tezei: „Environmental applications of carbon-based nanomaterials"
2002-prezent	Profesor, Departamentul de Chimie Analitica si Ingineria Mediului, Universitatea Politehnica din Bucuresti
2000-2002	Conferentiar, Departamentul de Chimie Analitica si Analiza Instrumentala, Universitatea Politehnica din Bucuresti
1996-2000	Sef de lucrari, Departamentul de Chimie Analitica si Analiza Instrumentala, Universitatea Politehnica din Bucuresti
1990-1996	Asistent universitar, Departamentul de Chimie Analitica si Analiza Instrumentala, Universitatea Politehnica din Bucuresti
1991-1996	Ph.D. in Chimie, Departamentul de Chimie Analitica, Universitatea Politehnica din Bucuresti, Titlul tezei: "Compusi macrociclici. Aplicatii analitice", Conducator stiintific: Prof. dr. doc. C. Luca
1982-1987	Teza de licenta, Departamentul de Chimie Organica , Facultatea de Tehnologie Chimica, Institutul Politehnic din Bucuresti, Titlul tezei Sinteza si aplicatiile vitaminei E, Conducator stiintific: Acad. Mircea Desideriu Banciu

Cercetare

Domenii de interes

- senzori electrochimici
- aplicatii analitice ale liganzilor macrociclici (in metode de separare si electrozi ion-selectivi) ;
- electrozi ion-selectivi cu limita scazuta de detectie;
- aplicatii analitice ale senzorilor electrochimici;
- determinari de contaminanti organici si anorganici din ape, soluri si din probe atmosferice;
- speciatie chimica in medii acvatice si biologice;
- caracterizarea si analiza unor nanostructuri pe baza de carbon;
- aplicatii analitice ale nanostructurilor pe baza de carbon.

Stagii de cercetare

1/04/1990 – 1/05/1990 – research stage at Max Plank Institute, Berlin, Germany, Pd recovery from hydrogenation catalysts

1/02/1993 – 31/08/1993 Tempus research stage at the Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands (Prof. D.N. Reinhoudt), analytical applications of supramolecular chemistry

1/02/1994 – 1/05/1994 Tempus research stage at the Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands (Prof. D.N. Reinhoudt), electrochemical sensors

1/04/1996 – 1/07/1996 Tempra research stage at the Dept. of Organic Electrochemistry and Redox Photochemistry, University Joseph Fourier, Grenoble, France (Prof. Eric Saint Aman), chemically modified electrodes for Ca

1/09/1997 – 1/12/1997 Nuffic postdoctoral stage at Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands the (Prof. D.N. Reinhoudt), ChemFETs for phosphate and fluoride

1/03/2000 – 1/09/2000 research stage at ETH Zurich, Switzerland (Prof Erno Pretsch), Ion selective electrodes for heavy metals

1/10/2000 – 1/03/2001 UREF AUPELF postdoctoral research stage (bourse d'excellence) at the Dept. Of Organic Electrochemistry and Redox Photochemistry, University Joseph Fourier, Grenoble, France (Prof. Eric Saint Aman), chemically modified electrodes for heavy metals

1/04/2001 – 1/06/2001 invited fellowship at ETH Zurich, Switzerland (Prof Erno Pretsch), low detection limit ion selective electrodes and their applications

1/10/2003 – 30/09/2004 postdoctoral stage in analytical hyphenated techniques (GC/MS), Department of Mass Spectrometry, University of Antwerpen, Belgium (prof. Magda Claeys), characterization of rural aerosols from K-puszta, Hungary.

7/10/2007 – 15/10/2007, training course in electrochemical impedance spectroscopy, Electrochemical Society ECS, San Francisco ,USA.

1/12/2008 – 31/03/2009 invited professor at University of Michigan, Dept. of Civil Engineering, USA to develop studies and projects in nanoparticles and their environmental applications; training in techniques of characterization of nanoparticles

Proiecte de cercetare

Internationale

ERASMUS agreement on research and academic cooperation between RWTH Aachen University and University Politehnica of Bucharest, 2014-2021

Natural nanoparticles in soils as possible environmental vectors for contaminants, nr. 327/2009, PN II, Capacitati, modul III, ANCS-Romania – BMDS-Germania, proiect bilateral, 2009-2010.

Removal of organic contaminants from the environment using engineered nanoparticles as powerfull adsorbents, I 420901 UPB-RO-MSU-USA, 2009-2010

Program TEMPRA, Rhone-Alpes, Franta, "*Electrodes modifiees pour l'electroanalyse "*, Laboratoire d'electrochimie organique et de photochimie redox (LEOPR), Universite Joseph Fourier, (URA CNRS 1210, BP 53, 38041 Grenoble Cedex 9), 1995-1997.

Nationale

" Microtehnologia obtinerii de biosenzori miniaturizati pentru detectare rapida a contaminantilor din produse alimentare", cod proiect 3855, nr. 52173/01.10.2008 (nr.intern UPB CH 420805), cordonator IMT, UPB partener 1, PN II, Program 4-Parteneriate in domenii prioritare, 2008-2011

*"Membrane lichide suportate cu aplicaţii analitice. Senzori electrochimici cu membrane lichide suportate"*contract de cercetare UPB-Ministerul Învătământului, nr.3001- A67 (A 67.51-92- 05), 1992-1994 (faza 1994, 67.1).

"*Studiul comparativ al tehnicilor electrochimice şi spectrofotometrice utilizate în analiza de urme (elemente metalice din produse anorganice). Aplicaţii ale metodelor spectrometrice şi electrochimice la determinarea urmelor de crom în matrici complexe şi elaborarea unui studiu comparativ privind caracteristicile şi performanţele metodelor*", contract de cercetare U.P.B.- ICECHIM nr.51-98-2 (1998).

" *Studiu preliminar de regenerare a catalizatorilor de paladiu K 7701 tip Leuna - Werke* ", contract de cercetare nr. 1270 (B – 126) ICECHIM (CCF) – CFS Săvineşti (1989)

"*Recuperarea cuprului din catalizatori uzaţi de CuO/MgO* ", contract de cercetare nr. 356, CFS Săvineşti - IPB, 1988.

"*Studiu epidemiologic si experimental privind actiunea unor compusi organici persistenti(POP) pe cresterea, dezvoltarea, functia si imunitatea tiroidiana si pe secretia estrogenica"*, nr.contract 32176/01.10.2008 (nr. intern UPB CH420805), Institutul de Endocrinologie C.I.Parhon coordonator, UPB Partener 1, CNMP, PN II, Program 4-Parteneriate in domenii prioritare, 2008-2011.

”Laborator de analiza a calitatii si identificarii falsurilor in fabricarea mierii ”, CEEX 3944, *Grant CEEX-Modulul IV P-Conform, 2006-2008*
”Senzori electrochimici inovativi pentru analize clinice si de mediu ”, Grant CEEX 5999, modul I, 2006-2008. ” *Senzori potentiometrici utilizati in analiza de urme ”,* GAR (grant al Academiei Romane) 2006, nr. 44/2005, CH 420 506
”*Senzori potentiometrici u tilizati in analiza de urme ”,* GAR (grant al Academiei Romane) 2005, nr. 50/2005, CH 420 506.
” *Sinteza si caracterizarea unor receptori moleculari pentru analiza speciilor minerale ”*, GAR (grant al Academiei Romane) 2003-2005.
” *Studiul unor liganzi macrociclici in vederea folosirii lor drept receptori pentru anioni si cationi ”*, grant de cercetare UPB-MEN (cod CNCSIS 161, contract nr. 33784/2002, tema 21).
”*Captori electrochimici selectivi pentru anioni si cationi pe baza de feroceni ”*, GAR (grant de cercetare UPB-Academia Romana) 2001-2003, nr. 33/2001, 47-01-06/2001.
” *Captori electrochimici selectivi bazati pe electrozi modificati* », grant de cercetare UPB-MEN (cod CNCSIS 648), 2001.
”*Evaluarea şi perfecţionarea cunoştinţelor în domeniul tehnicilor moderne de analiză chimică*”, contract UPB – ROMCONSULT nr.51-02-01/29.03.2002.
“*Perfecţionarea procesului de învăţământ de scurtă durată (colegiu) în domeniul tehnicilor electrochimice aplicate la controlul de calitate*”, **proiect cu Banca Mondială, CNFIS 183, 2001-2002**
“*Electrozi modificaţi chimic utilizaţi ca senzori în analize chimice. Faza 2000: Electrozi modificaţi chimic prin filme de polipirol substituit cu porfirine complexate cu cobalt”,* grant de cercetare C, UPB – ANSTI nr. 6082/2000 (tema A 85), 2000.
“*Electrozi modificaţi chimic utilizaţi ca senzori în analize chimice. Faza 1999: Electrozi modificaţi chimic prin filme de polipirol substituit”,* grant de cercetare C&D, UPB – ANSTI nr. 5076/18.11.1999 (tema B 102), 1999.
” *Investigarea comportării electrochimice a unor electrozi modificaţi cu filme de polipirol. Faza 1998: Studiul realizării unor electrozi modificaţi cu proprietăţi speciale de recunoaştere de anioni şi cationi”*, contract de cercetare UPB – MEN (1998), (cod CNCSU 656).
” *Investigarea comportarii electrochimice a unor electrozi modificati. Studiul realizarii unor electrozi modificati cu proprietati speciale de recunoastere de anioni si cationi* ”, contract de cercetare UPB-MEN 47-98-04/1998 (cod CNCSU 656)
”*Investigarea comportării electrochimice a unor electrozi modificaţi cu filme de polipirol. Experimente preliminare privind încorporarea în filme de polipirol a unor sisteme redox şi a unor eteri coroană* ”,contract de cercetare UPB - MCT, nr.47-96-03/1997(Cod CNSCU 1225).
” *Investigarea comportarii electrochimice a unor electrozi modificati cu filme de polipirol. Experimente preliminare privind incorporarea in filme de polipirol a unor sisteme redox si a unor eteri coroana* », contract de cercetare UPB-MCT 47-96-03 (1997), (cod CNCSU 1225).
”Metode electrochimice aplicate în analiza de urme a compuşilor de interes biotehnologic”, contract de cercetare U.P.B. - M.C.T, nr. 376+381, (Act Adiţional 2119/27.11.1997/IX), 51 –97 –5, 1997.
“*Studiul comparativ al tehnicilor electrochimice şi spectrofotometrice utilizate în analiza de urme (elemente metalice din produse anorganice). Elaborarea şi aplicaţii ale metodelor electrochimice de analiză pentru determinarea urmelor de nichel în matrici complexe*”, contract de cercetare U.P.B.- ICECHIM nr.51-96-2 (1996).
“*Studiul comparativ al tehnicilor electrochimice şi spectrofotometrice utilizate în analiza de urme (elemente metalice din produse anorganice). Studiul de literatură privind dezvoltarea şi caracteristicile tehnicilor electrochimice de analiză cu aplicaţii la determinarea cationilor de nichel şi molibden*”, contract de cercetare U.P.B.- ICECHIM nr.51-95-7(1995).

Activitate academica

Activitate didactica

Program de studii	*Specializare/Facultate*	*Cod*	*Titlu disciplina*	*Tip activitate*
Licenta	Chemical engineering	UPB.11.F.03.O.008	Chromatographic methods applied in quality control of products	curs
Licenta	Control and expertise of food products		Chromatographic methods and electrophoresis	Course/ practical work

Licenta			Instrumental methods of analysis in quality control of materials	Course/practical work
Master	Chemical engineering	UPB.11.01.O.11.12	Techniques and systems of evaluation of the quality of products	Course/ practical work
Doctorat	Chemistry		Carbon based nanomaterials as sorbents for environmental contaminants	Research

Titluri si premii

Membru al unor organizatii profesionale

- Scientific secretary of the Chemical Section of Romanian Academy 2004 -2006
- member in the editorial board of Academica – journal of the Romanian Academy from 2004
- member in the editorial board of UPB Sci. Bull., Chem.and Materials Sci.Series, from 1998
- expert evaluator in the national programmes CEEX (from 2005), CNCSIS(from 2001) and Romanian Academy (from 2007)
- member of Medical Research Initiative in South Eastern Europe from 2006
- member of ETP European Nanomedicine platform from 2006
- member of Electrochemical Society (USA) from October 2007
- European Food Safety Agency EFSA expert 2009
- Editor at IJVEE from 2009 (International Journal of Vocational Engineering Education)

Alte activitati semnificative

Erasmus Bilateral Agreement coordinator 2014 – 2021, Politehnica University of Bucharest – RWTH Aachen; University, Prof. dr. ing. Alina Catrinel Ion – Prof. dr. Henner Hollert.

Scientific referent at Mat. Sci. Eng. C (MSEC) (Elsevier); Mat. Sci. Eng. B (Elsevier); International Journal of Environmental Analytical Chemistry (Elsevier), Sensors&Actuators B (Elsevier); Food Chemistry (Elsevier); Desalination (Elsevier); J. Electrochem. Soc.; Polish Journal of Environmental Chemistry
Editor of volumes in Micro and Nanoengineering series, 2007, 2014, Editura Academiei Romane

Hirsch Index: 12 (ISI Web of Knowledge, May 2014)

Publicatii

Articole publicate in reviste de specialitate (IF din 2014)

1. E. Radu, **A.C. Ion**, F. Sirbu, I. Ion, "Adsorption of endocrine disruptors on exfoliated graphene nanoplatelets", Environ. Eng. Management J., 14(3), 2015, 551-558, ISSN:1592-9596, **IF-1,065**

2. M. Mihon,C. Tuta, R. Leonte, **A.C. Ion**, V. Lavric, D. Niculae, "An improved methodology for determination of radiochemical and chemical impurities in the synthesis process of ^{18}F-FDG(2-[18F]Fluoro-2-deoxy-D-glucose), Environ. Eng. Management J., 14(2), 2015, 289-296, ISSN:1592-9596, **IF-1,065**

3. M.R. Calin, **A.C. Ion**, I. Radulescu, "Evaluation of quality parameters and of natural radionuclides concentrations in natural mineral water in Romania", J. Radioanal. Nucl. Chem., 2015, 303 (1), 305-313, ISSN:0236-5731, **IF-1.034**

4. I.Ion, F. Sirbu, **A.C. Ion**, "Thermophysical investigations of exfoliated graphite nanoplatelets and active carbon in binary aqueous environments at different temperatures", J. Mater. Sci. 50(2), 2014, 587-598,ISSN: 0022-2461, IF = 2, 371

5. M. Simescu, C. Podia Igna, E. Nicolaescu, I. Ion, **A.C. Ion**, A. Caragheorgheopol, C. Neagu, M. Negru, M. Pribu, A. Kochanska-Dziurowicz, A. Stanjek-Ciochoracka, "Int. J. Suz. Dev. Plann., 9(1), 2014, 15-28, WIT Press Journals, ISSN 1743-7601

6. I. Ion, D. Bogdan, **A.C. Ion**, "Improvement in the determination of traces of nitrate and nitrite in natural mineral waters by ion chromatography", UPB Sci. Bull., series B, 76(3), 2014, 113-123, ISSN: 1454-2331.

7. E. Radu, I. Ion, **A.C. Ion**, „Chitosan oxidised exfoliated graphite nanoplatelets adsorptive materials for improved lead adsorption from aqueous solutions", I. Ion, D. Bogdan, A.C. Ion, "Improvement in the determination of traces of nitrate and nitrite in natural mineral waters by ion chromatography", UPB Sci. Bull., series B, 76(4), 2014, 35-44, ISSN: 1454-2331

8. Carmen Moldovan, Rodica Iosub, Cecilia Codreanu, Bogdan Firtat, Daniel Necula, Marian Ion, Costin Brasoveanu, **Alina Catrinel Ion**, Ion Stan, „*Biosensor Array Based Platform for Pesticide Detection"*, Sensor Lett., *11*, 2013, pp. 1519-1523, ACS Publications, ISSN: 1546-198X, **IF-0,558**

9. I. Ion, F. Sarbu, **A.C. Ion**, *"Density, refractive index, and ultrasound speed in mixtures of active carbon and exfoliated graphite nanoplatelets dispersed in N, N-dimethylformamide at temperatures from (293.15 to 318.15) K*", Journal of Chemical & Engineering Data, 58(5), 2013, pp.1212-1222, ACS Publications, ISSN: 0021-9568, **IF=2,037**

10. **Alina C. Ion**, Stephanie Bley, Ion Ion, Alina Culetu, Stanislav Zahov, Henner Hollert, Thomas-Benjamin Seiler, *Investigation of the contaminant sorption of treated Romanian soils using "batch" and biological toxicity assays*, Catena 101 (2013), 205-211, Elsevier, ISSN 0341-8162**, IF-2,820**.

11. I. Ion, **A.C. Ion**, *Differential pulse voltammetric analysis of lead in vegetables using a surface amino-functionalized exfoliated graphite nanoplatelet chemically modified electrode*, Sensors & Actuators: B. Chemical 166-167 (2012), 842-847, Elsevier, ISSN 0925-4005, **IF-4,097**.

12**.** I.Ion, **A.C. Ion**, *Determination of chlorpyriphos in broccoli using a voltammetric acetylcholinestrase sensor based on carbon nanostructure-chitosan composite material*, Materials Science and Engineering C 32 (2012), 1001-1004, Elsevier, ISSN 0928-4931, **IF=3,088**

13. I. Ion, **A.C. Ion**, A. Culetu, *Application of an exfoliated graphite nanoplatelet- modified electrode for the determination of quintozen*, Materials Science and Engineering C, 31, 2011, pp.1553-1557, Elsevier, ISSN 0928-4931, **IF=3,088**

14**. Alina C. Ion**, Alla Alpatova, I. Ion, Alina Culetu, *Study on phenol adsorption from aqueous solutions on exfoliated graphitic nanoplatelets*, Materials Science and Engineering B 176(7) (2011) 588–585, Elsevier, ISSN 0921-5107, **IF=2,169.**

15**. A. C. Ion**, I. Ion, A. Culetu, *Lead adsorption onto exfoliated graphitic nanoplatelets in aqueous solutions*, Materials Science and Engineering B, 176(6), 2011, pp. 504-509, Elsevier, ISSN 0921-5107, **IF=2,169**

16. Florinela Sirbu, Olga Iulian, **Alina Catrinel Ion**, Ion Ion, *" Activity Coefficient of Electrolites in the NaCl + Na_2SO_4 + H_2O Ternary System from Potential Difference Measurements at (298.15, 303.15 and 308.15)*, Journal of Chemical & Engineering Data, 56(12), 2011, pp.4935-4934, ACS Publications, ISSN: 0021-9568, **IF=2,037**

17. **A.C.Ion**, I. Ion, A.Culetu, D. Gherase, C.A.Moldovan, R.Iosub, A.Dinescu, *Acetylcholinesterase voltammetric biosensors based on carbon nanostructure chitosan composite material for organophosphate pesticides*, Materials Science and Engineering C, 30(6), 2010, pp.817-821, Elsevier, ISSN 0928-4931, **IF=3,088**

18.I.Ion, A.Culetu, J.Costa, C.Luca, **A.C.Ion**, *Polyvinyl chloride-based membranes of 3,7,11 - tris (2-pyridylmethyl)-3,7,11,17-tetraazabicyclo [11.3.1] heptadeca-1(17),13,15-triene as a Pb(II)-selective sensor*, Desalination, 259(1-3), 2010, p.38-43, Elsevier, ISSN 0011-9164, **IF=3,756**.

19. **A.C.Ion**, I.Ion, D.N.Stefan, L.Barbu, *Possible mercury speciation in urine samples using potentiometric methods*, Materials Science and Engineering C, 29 (1), 2009,pp. 1-4,Elsevier, ISSN 0928-4931, **IF=3,088**

20. S. Lupu, I. Ion, **A. C. Ion**, "*Voltammetric determination of phenol at platinum electrodes modified with polypyrrole doped with ferricyanide",* Revue Roumaine de Chimie 54 (5), 2009, pp. 351-357, ISSN: 0035-3930, IF = 0,311

21. **A. C. Ion**, J. Costa, I. Ion, D. Gherase, A. Culetu, *"Potentiometric studies on methyl pyridine derivatives of 14-membered tetra aza macrocycles as selective ionophores for heavy metals"*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 71 (4), 2009, pp. 41-42.

22. A.C. Ion, I. Ion, "*Short remarque on the provenience of nanoparticles in environmental samples"*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 71 (1), 2009, pp. 13-20.

23. **A. C. Ion**, I. Ion, "*Electrodic membranes selective for $Ag^+$and their applications in vitamin content potentiometric determination"*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2008, 70 (3), pp. 31-38.

24. **A. C. Ion**, I. Ion, "*Observations on some polar organic compounds in rural aerosols*", Revue Roumaine de Chimie 53 (2), 2008, pp. 133-139, ISSN: 0035-3930, IF = 0,311

24. **A. C. Ion**, I. Ion, L. Barbu, *"Chemically modified electrode for NO_2^- determination in environmental applications",* UPB Scientific Bulletin, Series B: Chemistry and Materials Science 69 (2), 2007, pp. 57-66.

26. **A.C. Ion**, I.Ion, L. Barbu, A. Ficai, D.N. Stefan, *"Environmental analytical applications of nanosensors"*, Micro and Nanoengineering series, 11, 2007, Editura Academiei Romane, pp. 231-239

27. **A.C. Ion**, I.Ion, L. Barbu, "*Optimization of preconcentration of cadmium and lead from samples with phosphate matrices using Chelex 100* ", Rev. Roum. Chim., 51 (12), 2006, pp. 1219 – 1225, ISSN: 0035-3930, IF = 0,311

29. **A.C. Ion**, I. Ion, L. Barbu, M. Negru, a. Ficai, C. Neagu "*Potentiometric Hg(II) determination in clinical samples*", J Biomedical Eng. Technologia of Kaunas University of Technology, 10(26-27), 2006, pp.77-81.

29. I. Ion, **A. C. Ion** *"Potentiometric determination of monobasic phosphate (H_2PO_4-) in mineral waters",* Rev. Roum. Chim., 50(3), 2005, pp. 219 – 225, ISSN: 0035-3930, IF = 0,311

30. I. Ion, **A.C. Ion**, "*Potentiometric determination of fluoride in groundwaters*", Rev. Roum. Chim., 50(5), 2005, pp. 413 – 418, ISSN: 0035-3930, IF = 0,311

21. Ion Ion, **A.C. Ion**, "*Potentiometric speciation of iron (II) and iron (III) in fertilizers by titration with cobalt (II) chloride*", Rev. Roum.Chim., 50 (4), 2005, pp.263 – 268, ISSN: 0035-3930, IF = 0,311

32. **A.C. Ion**, R.Vermeylen, I. Kourtchev, J.Cafmeyer, X.Chi, A.Gelencsér, W.Maenhaut, M.Claeys, *Polar organic compounds in rural PM2.5 aerosols from K-puszta, Hungary, during a 2003 summer field campaign: Sources and diel variations*, Atmospheric Chemistry and Physics, 5 (7), 2005, pp. 1805-1814, Elsevier, ISSN: 1680-7316, **IF-5,053**.

33. M.Claeys, W.Wang, **A.C. Ion**, I. Kourtchev, A.Gelencsér, W.Maenhaut, *Formation of secondary organic aerosols from isoprene and its gas-phase oxidation products through reaction with hydrogen peroxide*, Atmospheric Environment, 38 (25), 2004, pp. 4093-4098, Elsevier, **ISSN:** 1352-2310, **IF- 3,281**

34. M. Claeys, W. Wang, **A.C. Ion**, R. Vermeylen, I. Kourtchev, J.Cafmeyer and W. Maenhaut" *Characterization of isoprene oxidation products in rural continental aerosols", International Conference on carbonaceous particles in the atmosphere*, Journal of Aerosol Science (Special Issue EAC 2004), vol. 35(S1), 2004, pp.153-155, Elsevier, ISSN: 0021-8502, **IF- 2.236**

35. I. Ion, **A. C. Ion**, E. Ruse, A. Ficai, "*Simultaneous spectrphotometric determination of iron (II) and iron (III) in natural waters*", Sci. Technol. of Environ. Protection, vol.11 (1), 2004, pp.27 - 35.

36. **A.C.Ion**, I.Ion, L.Barbu, A.Ficai *"Potentiometric measurement of cadmium from fertilizers and soil"*, Science Technology of Environmental Protection, vol.10 (1), 2003, pp.21 - 28.

37. I.Ion, **A.C.Ion**, L.Barbu, *"Potentiometric determination of monobazic phosphate in waters"*, Science Technology of Environmental Protection, vol.9(2), 2002, pp.9 - 16.

38. **A.C.Ion**, I.Ion, M.M.G.Antonisse, B.H.M.Snelink-Ruel, D.N.Reinhoudt, "*Characteristics of an ion-selective electrode for fluoride determination in aqueous solution*",Russian Journal of General Chemistry, vol. 71(2),2001, pp.159-161.(Translated from Zhurnal Obshchei Khimii, vol.71(2), 2001, pp.181-184), ISSN: 1070-3632**,** IF=0,477

39**. A.C. Ion**, E.Bakker, E. *Pretsch, Potentiometric* Cd^{2+} *- selective electrode with a detection limit in the low ppt range*, (2001) Analytica Chimica Acta, 440 (2), 2001, pp. 71-79, Elsevier, ISSN 0003-2670, IF =4,513

40**. A.C.Ion**, E. Bakker, E.Pretsch, Erratum: *Potentiometric* Cd^{2+}*-selective electrode with a detection limit in the low ppt range* (Analytica Chimica Acta 440 (2001) (71-79) PII: S0003267001010522) (2002) Analytica Chimica Acta, 452 (2), p. 329, Elsevier, ISSN 0003-2670, IF =4,513.

41. N.Totir, S. Lupu, **A.C. Ion**, I. Ion, *"Analytical applications of chemically modified electrodes"*, Rev. Roum. Chim. 46(6), 2001, pp.3 – 13, ISSN: 0035-3930, IF = 0,311

42. **A.C.Ion**, I.Ion, M.M.G.Antonisse, B.H.M.Snelink-Ruel, D.N.Reinhoudt,
"*Characteristics of an ion-selective electrode for fluoride determination in aqueous solution*", Zh.Obsch.Khim., (in russian), vol.71(2), 2001, pp.181-184.

43. **A.C.Ion**, I.Ion, E.M.Ungureanu, E.Ruse, "*Preliminary study regarding thioethers applications in electrodic membranes selective for silver ion*", Science Technology of Environmental Protection vol.7(1), 2000, pp.52 - 55.

44. E.M.Ungureanu, A.C.Ion, I.Ion, A.Popescu, "*Molecular redox receptors for cations sensing*", Ovidius University Annals of Chemistry, vol. 11(1), 2000, pp.82 - 86.

45. M.M.G.Antonisse, B.H.M.Snellink-Ruël, **Alina C. Ion**, J.F.J.Engbersen, D.N.Reinhoudt, *Synthesis of novel uranyl salophene derivatives and evaluation as sensing molecules in chemically modified field effect transistors(CHEMFETs)* (1999) Journal of the Chemical Society. Perkin Transactions 2, (6), 1999, pp. 1211-1218, RSC, ISSN 1364-5471, Organic & Biomolecular Chemistry (2003-Present)), IF=3,562

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