

Lista de lucrări

Dr. Bocoș-Bințișan Victor

Publication record

I. Patents [Intellectual property titles]:

1. Patent WO/2011/144897 A1 (International Application No.: PCT/GB2011/000756). ***“Interface device for connecting injector and ion mobility spectrometer”***. Authors: Moll, Victor Hugo; Bocos-Bintintan, Victor; Thomas, Charles Lawrence Paul. Applicant: John Hogg Technical Solutions Ltd., Manchester, UK. [Publication date: 24 November 2011].
2. Patent GB 2480803 A. ***“Interface device for control of dopant levels in ion mass spectrometry”***. Authors: Moll, Victor Hugo; Bocos-Bintintan, Victor; Thomas, Charles Lawrence Paul. Applicant: John Hogg Technical Solutions Ltd., Manchester, UK. [Publication date: 07 December 2011].

II. Books (all published in Romanian language):

1. Victor Bocoș-Bințișan, ***“Spectrometria de mobilitate ionică” [“Ion mobility spectrometry”]***, 1998, Cluj University Press, Cluj-Napoca, Romania, ISBN 973-9354-77-7, 290 pp.
2. Victor Bocoș-Bințișan, ***“Tehnici moderne în analiza de ultraurme, cu impact în igiena industrială, protecția mediului și aplicații de securitate. Investigații privind clorul și fosgenul prin spectrometrie de mobilitate ionică” [“Modern techniques in ultra-trace analysis, with impact in industrial hygiene, environmental protection and security applications. Investigations on chlorine and phosgene by ion mobility spectrometry”]***, 2004, Cluj University Press, Cluj-Napoca, Romania, ISBN 973-610-243-2, 250 pp.
3. Ileana-Andreea Rațiu, Victor Bocoș-Bințișan, Adrian Pătruț, ***“Detecția markerilor bacterieni prin spectrometrie de mobilitate ionică – o nouă metodă de diagnosticare a infecțiilor bacteriene” [“Detection of bacterial markers using ion mobility spectrometry – a new method for diagnosing bacterial infections”]***, 2017, Casa Cărții de Știință (House of Scientific Books), Cluj-Napoca, Romania, ISBN 978-606-17-1151-2, 248 pp.

III. Papers published in journals indexed in Thomson ISI & international databases (selection):

1. Creța, Călina; Horga, Cristina; Vlad, Mariana; Pănescu, Vlad-Alexandru; Bocoș-Bințișan, Victor; Coman, Maria-Virginia*; Herghelegiu, Mihaela-Cătălina; Berg, Vidar; Lyche, Jan Ludvig; Beldean-Galea*, Mihail Simion, **"Water Quality and Associated Human Health Risk Assessment Related to Some Ions and Trace Elements in a Series of Rural Roma Communities in Transylvania, Romania"**, *Foods*, 2024, 13(3), 496. [DOI: <https://doi.org/10.3390/foods13030496>]. Accession Number: WOS: 001160986100001]. eISSN: 2304-8158. Impact factor in 2023 IF = 4.700 (quartile: Q1).
2. Pănescu, Vlad-Alexandru; Bocoș-Bințișan*, Victor; Herghelegiu, Mihaela-Cătălina; Coman, Radu-Tudor; Berg, Vidar; Lyche, Jan Ludvig; Beldean-Galea*, Mihail Simion, **"Pollution Assessment with Persistent Organic Pollutants in Upper Soil of a Series of Rural Roma Communities in Transylvania, Romania, Its Sources Apportionment, and the Associated Risk on Human Health"**, *Sustainability (Switzerland)*, 2024, 16(1), 232. [DOI: <https://doi.org/10.3390/su16010232>]. Accession Number: WOS: 001140379700001]. eISSN: 2071-1050. Impact factor in 2023 IF = 3.300 (quartile: Q2). * – Corresponding author!
3. Herghelegiu, Mihaela Cătălina; Pănescu, Vlad Alexandru; Bocoș-Bințișan*, Victor; Coman, Radu-Tudor; Berg, Vidar; Lyche, Jan Ludvig; Bruzzoniti, Maria Concetta*; Beldean-Galea, Mihail Simion*, **"Simultaneous Determination of Steroids and NSAIDs, Using DLLME-SFO Extraction and HPLC Analysis, in Milk and Eggs Collected from Rural Roma Communities in Transylvania, Romania"**, *Molecules*, 2024, 29(1), 96. [DOI: <https://doi.org/10.3390/molecules29010096>]. Accession Number: WOS: 001140388200001]. eISSN 1420-3049. Impact factor in 2023 IF = 4.200 (quartile: Q2). * – Corresponding author!
4. Patrut, Roxana T.; Patrut, Adrian; Hall, Grant; Winterbach, Christiaan W.; Robertson, Iain; Ratiu, Ileana Andreea; Bocos-Bintintan, Victor; Rakosy, Laszlo; Woodborne, Stephan, **"A 900-Year Isotopic Proxy Rainfall Record from Northeastern Botswana"**, *Forests*, 2023, 14(9), 1917. [DOI: <https://doi.org/10.3390/f14091917>]. Accession Number: WOS: 001081859400001]. eISSN: 1999-4907. Impact factor in 2023 IF = 2.400 (quartile: Q1).
5. Patrut, Adrian; Bocos-Bintintan, Victor; Patrut, Roxana T.; Partila, Doriană; Ratiu, Ileana-Andreea; Rakosy, Laszlo; Von Reden, Karl F., **"Radiocarbon Dating of the Historic Emperor's Beech from Muncel, Baia de Aries, Romania"**, *Studia Universitatis Babeș-Bolyai, Chemia*, 2022, vol. 67, issue 4, pp. 187-196. [DOI: <https://doi.org/10.24193/subbchem.2022.4.12>]. Accession Number: WOS: 000934800100013]. ISSN: 1224-7154. Impact factor in 2022 IF = 0.300 (quartile: Q4).
6. Patrut, Adrian; Patrut, Roxana T.; Bocos-Bintintan, Victor; Ratiu, Ileana-Andreea; Rakosy, Laszlo; Zdrob, George; Vanca, Eufrosina; Von Reden, Karl F., **"Radiocarbon Investigation of Two Old Elms from Romania"**, *Studia Universitatis Babeș-Bolyai, Chemia*, 2022, vol. 67, issue 1, pp. 245-256. [DOI: <https://doi.org/>

- [10.24193/subbchem.2022.1.16](https://doi.org/10.24193/subbchem.2022.1.16) . Accession Number: WOS: 000776596900016].
Impact factor in 2022 IF = 0.300 (quartile: Q4).
7. Patrut, Adrian; Rakosy, Laszlo; Patrut, Roxana T.; Bocos-Bintintan, Victor; Ratiu, Ileana-Andreea; Bodis, Jenő; Woodborne, Stephan, "**AMS Radiocarbon Dating of the Large Pedunculate Oak of Mercheasa, Romania**", *Studia Universitatis Babeş-Bolyai, Chemia*, 2021, vol. 66, issue 3, pp. 255-263. [DOI: <https://doi.org/10.24193/subbchem.2021.3.16> . Accession Number: WOS: 000705616200022]. Impact factor in 2021 IF = 0.558 (quartile: Q4).
 8. Victor Bocos-Bintintan; Ileana-Andreea Ratiu, "**Fast Sensing of Hydrogen Cyanide (HCN) Vapors Using a Hand-Held Ion Mobility Spectrometer with Nonradioactive Ionization Source**", *Sensors*, 2021, vol. 21, issue 15, Article Number: 5045. [DOI: <https://doi.org/10.3390/s21155045> . Accession Number: WOS: 000682188800001]. Impact factor in 2021 IF = 3.847 (quartile: Q1).
 9. Ileana Andreea Ratiu; Tomasz Ligor; Victor Bocos-Bintintan; Chris A Mayhew; Bogusław Buszewski, "**Volatile Organic Compounds in Exhaled Breath as Fingerprints of Lung Cancer, Asthma and COPD**", *Journal of Clinical Medicine*, 2021, 10(1), 32. [DOI: <https://doi.org/10.3390/jcm10010032> . Accession Number: WOS: 000606039400001]. Impact factor in 2021 IF = 4.964 (quartile: Q1).
 10. Victor Bocos-Bintintan; Ileana-Andreea Ratiu, "**Hunting for Toxic Industrial Chemicals: Real-Time Detection of Carbon Disulfide Traces by Means of Ion Mobility Spectrometry**", *Toxics*, 2020, vol. 8, issue 4, Article Number: 121, pp. 1-14. [DOI: <https://doi.org/10.3390/toxics8040121> . Accession Number: WOS: 000601745500001]. Impact factor in 2020 IF = 4.146 (quartile: Q2).
 11. Victor Bocos-Bintintan; George-Bogdan Ghira; Mircea Anton; Aurel-Vasile Martiniuc; Ileana-Andreea Ratiu, "**Sensing Precursors of Illegal Drugs - Rapid Detection of Acetic Anhydride Vapors at Trace Levels Using Photoionization Detection and Ion Mobility Spectrometry**", *Molecules*, 2020, vol. 25, issue 8, Article Number: 1852. [DOI: <https://doi.org/10.3390/molecules25081852> . Accession Number: WOS: 000534617500040]. Impact factor in 2020 IF = 4.411 (quartile: Q2).
 12. Victor Bocos-Bintintan; Charles Lawrence Paul Thomas; Ileana-Andreea Ratiu, "**Sensors' array of aspiration ion mobility spectrometer as a tool for bacteria discrimination**", *Talanta*, 2020, vol. 206, 1 January 2020, 120233. [DOI: <https://doi.org/10.1016/j.talanta.2019.120233> . Accession Number WOS: 000488416200060]. Impact factor in 2020 IF = 6.057 (quartile: Q1).
 13. Ileana-Andreea Ratiu; Victor Bocos-Bintintan; Fernanda Monedeiro; Maciej Milanowski; Tomasz Ligor; Bogusław Buszewski, "**An optimistic vision of future: Diagnosis of bacterial infections by sensing their associated volatile organic compounds**", *Critical Reviews in Analytical Chemistry*, Sep. 2019, 50(6), 501-512. [DOI: <https://doi.org/10.1080/10408347.2019.1663147>]. Accession Number: WOS: 000486607900001. Impact factor in 2019 IF = 4.568 (quartile: Q1).
 14. Ileana-Andreea Ratiu; Viorica Railean Plugaru; Pawel Pomastowski; Maciej Milanowski; Radik Mametov; Victor Bocos-Bintintan; Bogusław Buszewski, "**Temporal influence of different antibiotics onto the inhibition of Escherichia coli**

- bacterium grown in different media*", Analytical Biochemistry, 2019, vol. 585, 15 November 2019, 113407. [DOI <https://doi.org/10.1016/j.ab.2019.113407> . Accession Number WOS: 000518175200010]. Impact factor in 2019 IF = 2.877 (quartile: Q2).
15. Ileana-Andreea Ratiu; Tomasz Ligor; Fernanda Monedeiro; Hossam Al-Suod; Victor Bocos-Bintintan; Jacek Szeliga; Marek Jackowski; Boguslaw Buszewski, "**Features of chemical profiles released from infected versus uninfected human exudates**", Studia UBB Chemia, 2019, vol. LXIV, Issue 2, 207-216. [DOI <https://doi.org/10.24193/subbchem.2019.2.17 Part: 1> . Accession Number WOS: 000477816000018]. Impact factor in 2019 IF = 0.494 (quartile: Q4).
 16. Victor Bocos-Bintintan; Ileana-Andreea Ratiu; Hossam Al-Suod, "**Real time monitoring of soil contamination with diesel fuel using photoionization detectors**", Arab Journal of Basic and Applied Sciences, 2019, 26(1), pp. 446-452. [DOI <https://doi.org/10.1080/25765299.2019.1670464>].
 17. Ileana-Andreea Ratiu; Tomasz Ligor; Victor Bocos-Bintintan; Jacek Szeliga; Katarzyna Machała; Marek Jackowski; Bogusław Buszewski, "**GC/MS Application in Determination of Volatile Profiles Emitted by Infected and Uninfected Human Tissue**", Journal of Breath Research, 2019, 13(2), article no. 026003. [DOI: <https://doi.org/10.1088/1752-7163/aaf708> . Accession Number: WOS: 000460174200003]. Impact factor in 2019 IF = 2.929.
 18. Ileana-Andreea Ratiu; Mihail-Simion Beldean-Galea; Victor Bocos-Bintintan; Dorin-Daniel Costea, "**Priority Pollutants Present in the Tisza River Hydrographic Basin and their Effects on Living Organisms**", Jordan Journal of Chemistry, 2018, 13(1), 15-33. Accession Number WOS: 000431100100002. Impact factor in 2018 IF = 0.000.
 19. Ileana-Andreea Ratiu; Tomasz Ligor; Victor Bocos-Bintintan; Hossam Al-Suod; Tomasz Kowalkowski; Katarzyna Rafińska; Bogusław Buszewski, "**The effect of growth medium on an Escherichia coli pathway mirrored into GC/MS profiles**", Journal of Breath Research, 2017, 11, 036012, 12 pp. [DOI <https://doi.org/10.1088/1752-7163/aa7ba2> . Accession Number WOS: 000410192600001]. Impact factor in 2017: 3.489.
 20. Ileana-Andreea Ratiu; Tomasz Ligor; Victor Bocos-Bintintan; Bogusław Buszewski, "**Mass spectrometric techniques for the analysis of volatile organic compounds emitted from bacteria**", Bioanalysis, 2017, 9(14), 1069-1092. [DOI <https://doi.org/10.4155/bio-2017-0051> . Accession Number WOS: 000406538100006]. Impact factor in 2017: 2.321.
 21. Ileana Andreea Ratiu[#]; Victor Bocos-Bintintan[#]; Adrian Patrut; Victor Hugo Moll; Matthew Turner; C.L. Paul Thomas, "**Discrimination of bacteria by rapid sensing their metabolic volatiles, using an aspiration-type ion mobility spectrometer (a-IMS) and gas chromatography-mass spectrometry GC-MS**", Analytica Chimica Acta, 2017, 982, 209-217. [DOI <https://doi.org/dx.doi.org/10.106/j.aca.2017.06.031> . Accession Number WOS: 000405824300024]. Impact factor in 2018 IF = 5.256. [#] = **equally contributing first authors.**

22. Victor Bocos-Bintintan; Alina Smolenschi; Ileana Andreea Ratiu, "**Rapid determination of indoor air contaminants in shoe shops using photoionization detectors**", *Studia Universitatis Babes-Bolyai Chemia*, 2016, LXI, 4, 203-212. [Accession Number WOS: 000393578800016]. Impact factor in 2016: 0.244.
23. Oana Moldovan, Victor Bocoş-Binţinţan, "**The necessity of reconsidering the concept of non-formal education**", *Procedia – Social and Behavioral Sciences* (Elsevier), 2015, 209, 337-343. [DOI: 10.1016/j.sbspro.2015.11.245]. [Accession Number WOS: 000380408000050]. ISSN: 1877-0428. Impact factor in 2015: 0.
24. Ileana-Andreea Raţiu; Victor Bocoş-Binţinţan*; Matthew Turner; Victor-Hugo Moll; Charles Lawrence Paul Thomas, "**Discrimination of Chemical Profiles of Some Bacterial Species by Analyzing Culture Headspace Air Samples Using TD-GC/MS**", *Current Analytical Chemistry*, 2014, Vol. 10, No. 4, Pp. 488-497. [DOI: <https://doi.org/10.2174/157341101004140701105219>]. Accession Number: WOS: 000338710900006]. Impact factor in 2014: 1.132. * - corresponding author.
25. Daniel Andronache; Musata Bocos; Victor Bocos; Cecilia Macri, "**Attitude towards teaching profession**", *Procedia – Social and Behavioral Sciences* (Elsevier), 2014, Volume 142, 628-632. [DOI: 10.1016/j.sbspro.2014.07.677]. [Accession Number WOS: 000345346000099]. ISSN: 1877-0428. Impact factor in 2014: 0.
26. George-Bogdan Ghira; Ileana-Andreea Raţiu; Victor Bocoş-Binţinţan*, "**Fast Characterization of Pyridine Using Ion Mobility Spectrometry and Photoionization Detection**", *Environmental Engineering & Management Journal*, 2013, Vol. 12, No. 2, pp. 251-256. [Accession Number: WOS: 000317854400008]. Impact Factor in 2013: 1.258. * - corresponding author.
27. Victor Moll; Victor Bocoş-Binţinţan; Ileana-Andreea Raţiu; Dorota Ruszkiewicz; C.L. Paul Thomas, "**Control of dopants/modifiers in differential mobility spectrometry using a piezoelectric injector**", *Analyst* (London), 2012, Vol. 137, No. 6, pp. 1458-1465. [DOI: <https://doi.org/10.1039/c2an16109e>]. Accession Number: WOS: 000300510900025]. Impact Factor in 2012: 4.230.
28. Ran Huo; Agapios Agapiou; Victor Bocos-Bintintan; Lauren J. Brown; Corrinne Burns; Colin S. Creaser; Neil A. Devenport; B. Gao-Lao; Cristina Guallar-Hoyas; L. Hildebrand; A. Malkar; Helen J. Martin; Victor H. Moll; P. Patel; Andreea Raţiu; James C. Reynolds; Stefanie Sielemann; R. Slodzynski; Miltiades Statheropoulos; Matthew A. Turner; Wolfgang Vautz; Vicki E. Wright, and C. L. Paul Thomas, "**The Trapped Human Experiment**", *Journal of Breath Research*, 2011, Vol. 5, No. 4, pp. 1-12. [DOI: <https://doi.org/10.1088/1752-7155/5/4/046006>]. Accession Number: WOS: 000298182800006]. Impact Factor in 2011: 2.541.
29. Victor H. Moll; Victor Bocoş-Binţinţan; John Chappell; David Hutt; Ileana-Andreea Raţiu and C.L. Paul Thomas, "**Optimisation of piezoelectric injection of dopants and drift gas modifiers in transverse ion mobility spectrometry**", *International Journal for Ion Mobility Spectrometry*, 2010, 13(4), 149-155. [DOI: <https://doi.org/10.1007/s12127-010-0053-6>].
30. Victor Bocos-Bintintan; Victor H. Moll; Robert J. Flanagan and C.L. Paul Thomas, "**Rapid determination of alcohols in human saliva by gas chromatography**

differential mobility spectrometry following selective membrane extraction", International Journal for Ion Mobility Spectrometry, 2010, 13(2), 55-63. [DOI: <https://doi.org/10.1007/s12127-010-0040-y>].

31. James C. Reynolds, Gavin J. Blackburn, Cristina Guallar-Hoyas, Victor H. Moll, Victor Bocos-Bintintan, Gushinder Kaur-Atwal, Mark D. Howdle, Emma L. Harry, Lauren J. Brown, Colin S. Creaser and C.L. Paul Thomas, "***Detection of Volatile Organic Compounds in Breath Using Thermal Desorption Electrospray Ionization-Ion Mobility-Mass Spectrometry***", Analytical Chemistry, 2010, Vol. 82, No. 5, pp. 2139-2144. [DOI: <https://doi.org/10.1021/ac9027593>. Accession Number: WOS: 000274841300081]. Impact Factor in 2010: 5.874.
32. C. Cuna; M. Leuca; N. Lupsa; V. Mirel; V. Bocos-Bintintan; Stela Cuna; V. Cosma; Florina Tusa, "***Ion mobility analyzer - quadrupole mass spectrometer system design***", Journal of Physics: Conference Series (JPCS), Processes in Isotopes and Molecules (Institute of Physics Publishing, UK), Series 182, 012022, 5 pp., 2009. [DOI: <https://doi.org/10.1088/1742-6596/182/1/012022>].
33. Gushinder Kaur-Atwal; Gavin O'Connor; Alexander A. Aksenov; Victor Bocos-Bintintan; C.L. Paul Thomas; Colin S. Creaser, "***Chemical standards for ion mobility spectrometry: a review***", International Journal for Ion Mobility Spectrometry, 2009, 12(1), 1-14. [DOI: <https://doi.org/10.1007/s12127-009-0021-1>].
34. Iovanca Haiduc; Victor Bocos-Bintintan*, "***Modern techniques in harmful pollutants detection***", Revista de Chimie (Bucharest), 2006, 57(9), pp. 973-977. [Accession Number: WOS: 000242185000016]. Impact Factor in 2006: 0.367. * - corresponding author.
35. Victor Bocos-Bintintan; Alan H. Brittain; C.L. Paul Thomas, "***Characterisation of the phosgene response of a membrane inlet ⁶³Ni ion mobility spectrometer***", Analyst (London), 2002, 127(9), 1211-1217. [DOI: <https://doi.org/10.1039/b204298c>. Accession Number: WOS: 000177918300014]. Impact Factor in 2002: 2.292.
36. Victor Bocos-Bintintan; Alan H. Brittain; C.L. Paul Thomas, "***The response of a membrane inlet ion mobility spectrometer to chlorine and the effect of water contamination of the drying media on ion mobility spectrometric responses to chlorine***", Analyst (London), 2001, 126(9), 1539-1544. [DOI: <https://doi.org/10.1039/b100524n>. Accession Number: WOS: 000171129400010]. Impact Factor in 2001: 2.003.

IV. Papers published in Romanian journals and conference volumes:

1. Ciprian Baci; Muşata Bocoş; Dan Andronache; Victor Bocoş, "***Operational instrument for primary assessment of intrinsic quality of open educational resources***", Educatia 21 Journal, 2018, No. 16(1), Art. #08. [DOI: 10.24193/ed21.2018.16.08]. <http://educatia21.reviste.ubbcluj.ro>
2. Victor Bocos-Bintintan; Ileana-Andreea Raţiu, "***Detection of Some Bacterial Markers by Ion Mobility Spectrometry – Preliminary Investigations***", Environment & Progress, 2010, No. 13, pp. 49-58 (conference volume).

3. Victor Bocos-Bintintan; Maria-Georgiana Pop, "**Trace detection of ammonia by ion mobility spectrometry**", Environment & Progress, 2007, No. 11, pp. 53-60 (conference volume).
4. Victor Bocos-Bintintan, "**Detection of atmospheric pollutants by Ion Mobility Spectrometry**", Environment & Progress, 2005, Vol. 3, pp. 33-40 (conference volume).
5. Victor Bocos-Bintintan, "**Applications of Ion Mobility Spectrometry in environmental monitoring**", Environment & Progress, 2004, Vol. 2, pp. 51-55 (conference volume).
6. Victor Bocos-Bintintan, "**Environmental applications of Ion Mobility Spectrometry**", Romanian Journal of Optoelectronics, 2003, vol. 11, nr. 3 (July-September), pp. 71-80.
7. Victor Bocos-Bintintan, "**Detection, properties and effects of main Chemical Warfare Agents (CWA)**", Romanian Journal of Optoelectronics, 2003, vol. 11, nr. 2 (April-June), pp. 55-86.
8. Victor Bocos-Bintintan; C.L. Paul Thomas; Alan H. Brittain, "**Characterization of the chemical warfare agent simulant methyl salicylate by ion mobility spectrometry/mass spectrometry (IMS/MS) at ambient temperature**", Studia Universitatis Babes-Bolyai, Chemia, 2002, XLVII, nr. 1, 149-160.
9. Aurel-Vasile Martiniuc; Victor Bocos-Bintintan; Luc Cinotti; Luminita Ungureanu, "**Positron Emission Tomography (PET) – Principles and general characteristics**", Studia Universitatis Babes-Bolyai, Chemia, 2002, XLVII, nr. 1, 121-130.
10. Victor Bocos-Bintintan; Aurel-Vasile Martiniuc; Emil A. Cordos, "**Screening technologies for aviation security**", Studia Universitatis Babes-Bolyai, Chemia, 2001, XLVI, nr. 1-2, 295-308.
11. Victor Bocos-Bintintan; Aurel-Vasile Martiniuc, "**Performance assessment of explosive detection systems**", Romanian Journal of Optoelectronics, 2001, vol. 9, nr. 4, pp. 43-72.
12. Victor Bocos-Bintintan; M. Bocos; E. Cordos, "**Ion Mobility Spectrometry - A new and powerful trace detection technique**", Romanian Journal of Optoelectronics, 2000, vol. 8, nr. 1 (January-March), pp. 39-66.
13. Victor Bocos-Bintintan; C.L.P. Thomas; A.H. Brittain, "**Characterization of the ion mobility spectrometric response to phosgene at room temperature**", Romanian Journal of Optoelectronics, 2000, vol. 8, nr. 2 (April-June), pp. 1-12.
14. Victor Bocos-Bintintan, "**Ion Mobility Spectrometry - Theory and instrumentation**", Studia Universitatis Babes-Bolyai, Chemia, 2000, XLV, nr. 1-2, pp. 219-238.
15. Victor Bocos-Bintintan; E. Cordos; M. Bocos, "**Analytical applications of Ion Mobility Spectrometry**", Studia Universitatis Babes-Bolyai, Chemia, 2000, XLV, nr. 1-2, pp. 209-217.

V. Oral Communications & Posters (selection):

1. Victor Bocoș-Bințișan*, Mihail-Simion Beldean-Galea, Tomáš Rozsypal, Paul-Flaviu Bocoș-Bințișan, **"Fast sensing of deadly nerve chemical weapons investigated using their surrogate compounds – Case study about trace detection and quantification of DIMP, a by-product of the synthesis of Sarin, using either Ion Mobility Spectrometry or GC-MS"**, Presented at *The National Symposium Environment & Progress 2024*, 13-15 June 2024, Cluj-Napoca, Romania. Oral communication.
2. Alin-Gabriel Moraru*, Victor Bocoș-Bințișan, **"Detecția rapidă a urmelor de DMNB, un compus de marcare a explozivilor plastici, prin spectrometrie de mobilitate ionică" ("Fast detection of DMNB traces, a marking compound for plastic explosives, by Ion Mobility Spectrometry")**, Presented at *The National Symposium Environment & Progress 2024*, 13-15 June 2024, Cluj-Napoca, Romania. Oral communication.
3. Victor Bocoș-Bințișan*, **"Ultra-Fast Chromatography in a Short Empty Column? Ion Mobility Spectrometry Applied to Detect Trace Toxic Chemicals in Air by Portable Instrumentation"**, Presented at *The 27th International Symposium on Advances in Extraction Technologies (ISSS 2023)*, September 24th - 27th 2023, Cluj-Napoca, Romania. Keynote Lecture KL-14 – presented Tue 26.09.2023. Page 93 in *Book Of Abstracts of the 27th International Symposium on Separation Sciences*, Casa Cărții de Știință Publishing House, Cluj-Napoca, Romania, ISBN 978-606-17-2211-2; Virginia Coman, Dan-Constantin Niță, Mihail-Simion Beldean-Galea (editors). <https://iss2023.conference.ubbcluj.ro/>
4. Victor Bocoș-Bințișan, Mihail-Simion Beldean-Galea, Paul-Flaviu Bocoș-Bințișan*, **"Trace Detection of DIMP (Diisopropyl Methylphosphonate), a by-Product and Simulant of Sarin, Using Ion Mobility Spectrometry and GC-MS"**, Presented at *The 27th International Symposium on Advances in Extraction Technologies (ISSS 2023)*, September 24th - 27th 2023, Cluj-Napoca, Romania. Poster P-11. Page 169 in *Book Of Abstracts of the 27th International Symposium on Separation Sciences*, Casa Cărții de Știință Publishing House, Cluj-Napoca, Romania, ISBN 978-606-17-2211-2; Virginia Coman, Dan-Constantin Niță, Mihail-Simion Beldean-Galea (editors). <https://iss2023.conference.ubbcluj.ro/>
5. Vlad Alexandru Pănescu*, Mihail Simion Beldean-Galea, Mihaela Cătălina Herghelegiu, Victor Bocoș-Bințișan, Maria-Virginia Coman, and Vidar Berg, **"Assessment of chlorinated pesticide content in eggs and milk consumed in rural Roma communities in Transylvania, Romania, and their risk to human health"**, Presented at *The 25th International Symposium on Advances in Extraction Technologies (ExTech 2023 Tenerife)*, 18th to 21th July 2023, Tenerife (Canary Islands), Spain. Poster Session #1, P21 – Wed 19.07.2023 (page 165 – Book Of Abstracts). <https://extech2023.ull.es/book.htm>
6. Mihail Simion Beldean-Galea*, Mihaela Cătălina Herghelegiu, Vlad Alexandru Pănescu, Victor Bocoș-Bințișan, Maria-Virginia Coman, and Vidar Berg,

- "Simultaneous determination of steroids and NSAIDs in milk and eggs collected from rural Roma Communities in Transylvania, Romania based on DLLME-SFO and HPLC analysis"***, Presented at *The 25th International Symposium on Advances in Extraction Technologies (ExTech 2023 Tenerife)*, 18th to 21th July 2023, Tenerife (Canary Islands), Spain. Poster Session #2, P62 – Thu 20.07.2023 (page 206 – Book Of Abstracts). <https://extech2023.uill.es/book.htm>
7. Victor Bocoș-Bințișan*, Alin-Gabriel Moraru, ***"Explosives & Environment – Powerful Technologies for Their Rapid Detection"***, Presented at *The National Symposium Environment & Progress 2023*, 18-19 May 2023, Cluj-Napoca, Romania. Oral communication.
 8. Alin-Gabriel Moraru*, Victor Bocoș-Bințișan, ***"Detection of Explosives Using their Volatile Markers"***, Presented at *The National Symposium Environment & Progress 2023 – EcoUniversitaria section*, 18-19 May 2023, Cluj-Napoca, Romania. Oral communication.
 9. Victor Bocoș-Bințișan*, ***"Sensing Toxic Industrial Chemicals TIC: Real-time detection of iodine vapors at trace levels in air using Ion Mobility Spectrometry"***, Presented at *The National Symposium Environment & Progress 2019*, 15 November 2019, Cluj-Napoca, Romania. Oral communication.
 10. Victor Bocoș-Bințișan*; Ileana-Andreea Rațiu ***"Ultra-fast chromatography in a short, empty column? Yes, this is Ion Mobility Spectrometry!"***. Presented at *The Centenary Symposium of the Romanian Society of Chemistry SRCh – Separation Sciences Section*, Cluj-Napoca, Romania, October 26th, 2018 (Keynote Lecture).
 11. Victor Bocoș-Bințișan*, ***"Negative-mode Ion Mobility Spectrometry IMS applied to trace detection of toxic industrial chemicals TICs"***. Presented at *Military University of Technology [WAT - Wojskowa Akademia Techniczna] in Warsaw, Poland*, Thursday April 19th, 2018 (Invited Plenary Lecture).
 12. Victor Bocoș-Bințișan*; Ileana-Andreea Rațiu ***"Ion Mobility Spectrometry IMS - a very fast chromatography of ions in gaseous phase. Application of portable IMS instrumentation to trace detection of toxic industrial chemicals TICs in air"***. Presented at *The XII International Conference on Ion Chromatography IC-2018*, Zabrze, Poland, April 17-18th, 2018 (Keynote Lecture – Tuesday 17.04.2018).
 13. Victor Bocoș-Bințișan*; Ancuța-Maria Dodea, ***"Rapid detection, in real time, of the organophosphoric pesticide Chlorpyrifos by Ion Mobility Spectrometry"***, Presented at *The National Symposium Environment & Progress 2017*, 10 November 2017, Cluj-Napoca, Romania. Oral communication.
 14. Victor Bocoș-Bințișan*, ***"Ion Mobility Spectrometry – A powerful trace detection technique applied to toxic industrial chemicals and pesticides"***. Presented at the International U.A.B. – B.EN.A. [Balkan Environmental Association] Conference 2017 *"Environmental Engineering & Sustainable Development"*, Alba-Iulia, Romania, May 25-27th, 2017 (Communication - Thursday 25.05.2017). Oral communication – distinguished with the Special Award at Section #5.

15. Ileana-Andreea Rațiu*; Tomasz Ligor; Victor Bocoș-Bințișan; Hossam Al-Suod; Katarzyna Rafińska; Bogusław Buszewski, **"Aqueous-phase reactions occurring in various growth mediums with *E. coli* mirrored into different volatiles' profiles"**, Presented at the "Fifth Scientific Conference Monitoring and water analysis – Chromatographic methods for the determination of ionic compounds" (University Nicolaus Copernicus, Toruń), April 2-4 2017, Toruń-Lysomice, Poland. Poster.
16. Victor Bocoș-Bințișan*, **"Ion Mobility Spectrometry IMS as an Integrated & Highly Performant Separation and Detection Technique"**. Presented at The Workshop *Multi-Dimensionality and Miniaturization in Environmental Samples Analysis*, organized in October 2016, under the Bilateral Research Grant Roumanie-France no. 774 / 2016. Cluj-Napoca, October 2016. Key-note Lecture.
17. Victor Bocoș-Bințișan*; Ileana-Andreea Rațiu; Mircea Anton, **"Real-time detection of traces of HCN in air using Ion Mobility Spectrometry"**. Presented at the National Symposium *Environment & Progress 2015*, 30th October 2015, Cluj-Napoca, Romania. Oral communication.
18. Aurel Vasile Martiniuc*; Rouhollah Habibey; Asiyeh Golabchi; Victor Bocoș-Bintintan; Alois Knoll; Axel Blau, **"Paired Spiking Is an Ubiquitous Response Property in Network Activity"**, Presented at the 9th International Meeting on Substrate-Integrated Microelectrode Arrays (MEA Meeting), 01-04 July 2014, Reutlingen, Germany. Book of Abstracts, Pag. 181-182. ISSN 1471-2202.
19. Victor Bocoș-Bințișan*; George-Bogdan Ghira; Ileana-Andreea Rațiu; Mircea Anton; Aurel-Vasile Martiniuc, **"Sensing Precursors of Illegal Drugs – Rapid Detection of Acetic Anhydride Vapors at Trace Levels Using Photoionization Detection and Ion Mobility Spectrometry"**. Presented at the 10th International Conference ELSEDDIMA 2014, 18-19th September 2014, Cluj-Napoca, Romania. Oral communication.
20. George-Bogdan Ghira*; Victor Bocoș-Bințișan, **"Real-Time Characterization of Methyl Ethyl Ketone (MEK), as a Chemical Involved in Cocaine Production, Using Ion Mobility Spectrometry IMS and Photoionization Detection PID"**, Presented at the National Symposium *Environment & Progress 2013*, May 2013, Cluj-Napoca, Romania. Oral communication.
21. Victor Bocoș-Bințișan*, **"Ion Mobility Spectrometry – Four decades in trace detection for military, security and environmental applications"**. Presented at the 9th International Conference ELSEDDIMA 2012, Cluj-Napoca, Romania (*Plenary Lecture*).
22. Ileana-Andreea Rațiu; Victor Bocoș-Bințișan*; Victor Hugo Moll; Matthew Turner; Corrinne Burns; Constantin Cosma; C.L. Paul Thomas, **"Characterization of some chemicals, possible bacterial markers, from culture headspace air samples using TD-GC-MS"**. Presented at the 17th International Symposium on Separation Sciences ISSS 2011, Cluj-Napoca, Romania, September 5-9, 2011 (Communication OP-9, Thursday 08.09.2011).
23. R. Huo; A. Agapiou; V. Bocoș-Bintintan; L. Brown; C. Burns; C.S. Creaser; N. Devenport; C. Guallar-Hoyas; L. Hildebrand; A. Malkar; H. Martin; V.H. Moll; P.

- Patel; A. Ratiu; J.C. Reynolds; S. Sielemann; R. Slodzynski; M. Statheropoulos; M. Turner; W. Vautz; V. Wright; C.L.P. Thomas*, "***The Trapped Human Experiment***". Presented at the 20th International Conference on Ion Mobility Spectrometry ISIMS 2011, Edinburgh, Scotland, United Kingdom, 24th–29th July 2011 (Scientific communication – 28.07.2011).
24. Victor H. Moll*; Victor Bocos-Bintintan; Ran Huo; Ileana-Andreea Ratiu; Cristina Guallar-Hoyas; Osmo Anttalainen; C.L. Paul Thomas, "***Developing ion mobility spectrometric methods for use in trapped human simulation experiment***". Presented at the 19th International Conference on Ion Mobility Spectrometry ISIMS 2010, Albuquerque, New Mexico, USA, July 18-23, 2010 (Poster #8).
25. Colin S. Creaser; Mark D. Howdle; Gushinder Kaur-Atwal; James C. Reynolds*; Emma L. Harry; Lauren J. Brown; Gavin J. Blackburn; Victor H. Moll; Victor Bocos-Bintintan; Cristina Guallar-Hoyas; C.L. Paul Thomas, "***Desorption Electrospray Imaging Combined with Ion Mobility-Mass Spectrometry***". Presented at the 18th International Mass Spectrometry Conference (IMSC), Bremen, Germany, Aug. 30 – September 4, 2009 [www.imsc-bremen-2009.de]. Poster Session 2, Wednesday September 2, 2009 – PWA: 38.
26. James C. Reynolds*; Victor H. Moll; Karmen Cheung; Gavin J. Blackburn; Victor Bocos-Bintintan; Cristina Guallar-Hoyas; Sultan Shair; Gushinder Kaur-Atwal; Mark D. Howdle; Emma L. Harry; Lauren J. Brown; Colin S. Creaser and C.L. Paul Thomas, "***Real-time non-invasive in-vivo exhaled breath monitoring by electrospray time-of-flight mass spectrometry***". Presented at the 18th International Mass Spectrometry Conference (IMSC), Bremen, Germany, Aug. 30 – September 4, 2009 [www.imsc-bremen-2009.de]. Poster Session 1, Monday August 31, 2009 – PMM: 274.
27. James C. Reynolds*; Gavin A. Blackburn; Victor Bocos-Bintintan; Victor H. Moll; Cristina Guallar-Hoyas; Gushinder Kaur-Atwal; Emma L. Harry; Mark Howdle; Lauren J. Brown; Colin S. Creaser; C.L. Paul Thomas, "***Breath profiling by electrospray ion mobility spectrometry mass spectrometry***". Presented at the 18th International Conference on Ion Mobility Spectrometry ISIMS 2009, Thun, Switzerland, July 25-31, 2009 (Communication #2).
28. Victor Moll*; Victor Bocos-Bintintan; C.L. Paul Thomas; Robert J. Flanagan, "***Screening for methanol poisoning using thermal desorption – gas chromatography – differential mobility spectrometry***". Presented at the 18th International Conference on Ion Mobility Spectrometry ISIMS 2009, Thun, Switzerland, July 25-31, 2009 (Poster #20).
29. Lauren J. Brown*; James C. Reynolds; Victor Bocos-Bintintan; Danielle Toutoungi; Billy Boyle; C.L. Paul Thomas; Colin S. Creaser, "***Miniaturised high field asymmetric waveform ion mobility spectrometry for the detection of volatile and non-volatile analytes***". Communication presented at the 1st Analytical Research Forum (Royal Society of Chemistry), Pfizer Global R+D Labs (Sandwich, Kent) and University of Kent (Canterbury), 13th–15th July 2009, United Kingdom.

30. Victor Moll*; Victor Bocos-Bintintan; C.L. Paul Thomas, "***Rapid and sensitive screening for methanol and ethylene glycol poisoning using differential ion mobility techniques***". Communication presented at the 1st Analytical Research Forum (Royal Society of Chemistry), Pfizer Global R+D Labs (Sandwich, Kent) and University of Kent (Canterbury), 13th–15th July 2009, United Kingdom.
31. Cornel Cuna*; Daniel Ursu; Victor Bocos-Bintintan; Stela Cuna; Adrian Pamula, "***Gas chromatograph – ion mobility detector for environmental studies***". Communication presented at the 25th Informal Meeting on Mass Spectrometry, Nyíregyháza-Sóstó, 6th–10th May 2007, Hungary.
32. Cornel Cuna*; Victor Bocos-Bintintan; Stela Cuna, "***Ultrasensitive detection of the pollutants by ion mobility spectrometry - mass spectrometry***". Communication presented at the 24th Informal Meeting on Mass Spectrometry, Ustroń, 14th–18th May 2006, Poland.

*** - autorul care a prezentat comunicarea științifică / posterul.**

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