

**EUROPEAN
CURRICULUM
VITAE
FORMAT**



PERSONAL INFORMATION

Name	KMETOV, Veselin Jordanov
Address	UNIVERSIY OF PLOVDIV "Paisii Hilendarski" Department of Analytical Chemistry and Computer Chemistry 24, Tzar Assen Str., 4000, Plovdiv, Bulgaria
Telephone	+359 32 261 337
Mobile phone	+359 88735410
Fax	+359 32 261403
E-mail	kmetov@uni-plovdiv.bg
Personal WEB page	http://web.uni-plovdiv.bg/kmetov/
Nationality	Bulgarian
Date of birth	22 January 1963, Gabrovo, Bulgaria

WORK EXPERIENCE

- Dates (from – to)
 - Name and address of employer

 - Type of business or sector
 - Dates (from – to)
 - Main activities and responsibilities

 - Dates (from – to)
 - Main activities and responsibilities

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 - Main activities and responsibilities

 - Dates (from – to)
 - Name of employer
 - Main activities and responsibilities

 - Dates (from – to)
 - Name of employer
 - Main activities and responsibilities
- 1987 – CURRENT**
UNIVERSIY OF PLOVDIV "Paisii Hilendarski"
Department of Analytical Chemistry and Computer Chemistry
24, Tzar Assen Str., 4000, Plovdiv, Bulgaria
Academic
- 2007– CURRENT**
Associate Professor Dr.
Head of the Department of Analytical Chemistry and Computer Chemistry
- 2007– 2011**
Associate Professor Dr.
Vice DEAN of the Faculty of Chemistry
- 1998– 2007**
Senior Assistant Professor Dr.
Lecturer
- 1994– 1998**
Chief Assistant Professor
Centre of Analytical Chemistry and Applied Spectroscopy (CACAS)
- 1991– 1998**
Scientific Researcher -
Researcher - Centre of Analytical Chemistry and Applied Spectroscopy (CACAS)
- 1987– 1991**
Chemist – Central Research Laboratory at University of Plovdiv
- 1981– 1983**
Bulgarian Army
Military service - sergeant
- 1980– 1981**
ZPU, Gabrovo
Worker – Quality control of electronic devises

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
 - Principal subjects
 - Title of qualification awarded
- Level in national classification

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification

- Dates (from – to)
- Name and type of organisation providing education and training
 - Principal subjects
- Level in national classification

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas
research interests

LECTURER IN ACADEMIC COURSES

Bachelor (B.Sc)
and Master (M.Sc)

INVITED TALKS

METROLOGY IN CHEMISTRY

2003

University of Plovdiv
PhD in Analytical Chemistry, diploma N29112
Discrete sample introduction of high dissolved solids solutions in FAAS
PhD
ISCED-6

1983-1987

University of Plovdiv
Graduated (honoured with a gold medal) the Faculty of Chemistry and Biology
Masters degree in Analytical Chemistry, Thesis title:
Atomic absorption determination of trace elements in tin reference materials. application of different sampling techniques. diploma N A83 009892
Master in Chemistry , Teacher in Chemistry and Physics
ISCED-5A

1976-1980

High School "V. Aprilov" Gabrovo
(honoured with a silver medal)
Humanitarian and natural science, Professional Driving license – category C
ISCED-3A

Co-author of more than 40 scientific papers, two books chapters
SCOPUS Author ID 6602264121 ((h index . = 7); 165 citations

Development and analytical application of instrumental analysis by atomic spectrometry methods (AAS, ICP-OES and ICP-MS). Efficient methods for trace elements determination in food staff, environmental, clinical and industrial materials.

Green Analytical Chemistry. Sample preparation based on the use of microwave radiation, CPE and SPE nano particles extraction.

Analysis of heavy matrices by discrete sample introduction - FI, ETV.

Metrology in chemistry, methods validation, data acquisition and treatment.

Methodology of academia teaching

Teaching materials development – internet appliance

http://web.uni-plovdiv.bg/kmetov/Education/EDU_main_pageBG.htm

Analytical Chemistry and Instrumental Analysis- B.Sc
Instrumental Analysis in Chemistry- B.Sc
Statistics and Metrology in Chemistry- B.Sc
Computer Qualimetry- B.Sc
Analytical Environmental Chemistry - M.Sc
Atomic Absorption Spectrometry - M.Sc
Metrology and Quality Management- M.Sc

Erasmus Lecturer at the University of Alicante Spain (2004 - 2013)

Lecturer in Bulgarian TrainMiC team – (2002-2007)

On place intensive courses: Agira Ltd, Aurubis Bulgaria, Executive Environmental Agency; National Electric Company, Komihris Ltd, Di and Vi Consult Ltd Alimenty and etc.

Authorized TrainMiC trainer – EC JRC-IRMM (2004-08) – trained in Geel, Belgium. Lecturer in Bulgarian team – winner of bi-annual TrainMiC Challenge Cup (2006)

Member of AcadeMiC board – Rogaska declaration (Octob. 2006)

Trained in the Union of Bulgarian Metrologists – expert in – ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories; Management of Laboratory Quality system

Member of the National committee of methodology in metrology (2011-)

REFERRER SCIENTIFIC JOURNALS	Analytical Biochemistry, Elsevier Analytical Letters, Taylor & Francis International Journal of Environmental Analytical Chemistry, Taylor & Francis Journal of Analytical Atomic Spectrometry, RSC Publishing Spectroscopy Letters, Taylor & Francis Talanata, Elsevier
MEMBER OF SCIENTIFIC JURIES	PhD at University of Vigo, Spain (2009) Selection of Professor in Analytical Chemistry at Sofia University (2011) PhD in Analytical Chemistry at Sofia University (2013)
MEMBERSHIPS	Union of Scientists in Bulgaria Union of Metrologists in Bulgaria Royal Society of Chemistry
MOTHER TONGUE	BULGARIAN
OTHER LANGUAGES	ENGLISH
Reading skills	(C1) excellent
Writing skills	(B2) good
Verbal skills	(C1) excellent
Reading skills	(B2) good
Writing skills	(A2) basic
Verbal skills	(B1) good
SOCIAL SKILLS AND COMPETENCES	Specializations and visits abroad: Perkin Elmer training course "ICP-MS instrumentation and analysis" Germany (Dec.1990) CEC COST ERB-CIPA-CT-92-0371; SSC, Milan, Italy, (May-July 1993) TEMPUS IMG-95-BG 2010- University of Alicante, Spain (April-Jun 1996) OEAD TU Vienna, Austria "New approaches in Speciation Analysis"(Jan.-May 1998) TEMPUS S-JEP 12451 Joseph Fourier University Grenoble, France (Oct.-Nov. 1998); Saarland University, Germany (June 1999);University of Alicante, Spain (Jan.-Feb. 2000) TrainMiC - EC JRC IRMM Gent, Belgium (May 2004) FP6 TrainNet Food quality and safety – Budapest (July 2005) AcadeMiC, JRC-IRMM, Eurachem, Rogoska Slatina, Slovenia (July 2005) Perkin-Elmer ICP-MS Invited guest Monza, Italy, (June 2008) Agilent Technologies - Invited expert Waldborn, Germany (July 2009) FP7-REGPOT- BioSupport - University of Alicante, Spain (May 2010) FP7-REGPOT- BioSupport – TU Vienna, Austria (June 2010) Agilent Technologies - Invited expert Waldborn, Germany (Nov-Dec. 2011) Thermo Scientific - ICP-MS Invited expert Istanbul (March 2013) Perkin Elmer ICP-MS Invited expert – Vienna (April 2013)
ORGANISATIONAL SKILLS AND COMPETENCES	Multinational and local research projects financed by European and Bulgarian funds: Leader of TEMPUS S-JEP 12451 (1997-2000) Local Coordinator of COST D-32 DW 005/04 (2004 – 2009) Coordinator of GAMA consortium project DO 02-70 BGNSF (2008–2012) Head of Food and Bio-product Analysis working group in FP7-REGPOT- BioSupport (2009–2013) Administrative activities in the Faculty of Chemistry Member of Chemistry Faculty council Supervisor of PhD students – Lora Georgieva, Dilyana Kostadinova Head of the Commission of Quality Assessment and Academic Staff Evaluation (2007-2013) Head of the Research group of Atomic Spectrochemistry (RGAS) (2001---) accomplished more than 100 applied research projects with companies
Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc	
Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc	

<p>TECHNICAL SKILLS AND COMPETENCES <i>With computers, specific kinds of equipment, machinery, etc.</i></p>	<p>COMPUTER SKILLS - MS OFFICE, MULTIMEDIA POWER POINT PRESENTATIONS, DATA BASES. OPERATOR WITH PRACTICAL EXPERIENCE IN ATOMIC SPECTROMETRY INSTRUMENTAL ANALYSIS: PERKIN-ELMER AAS ZEEMAN 5100; SPECTROFLAME ICP-OES; PLASMA 1000 PERKIN-ELMER, THERMO ICAP 6300 DUO ICP-OES; PERKIN-ELMER SCIEX ELAN 500 ICP-MS, AGILENT 7700 ICP-MS, WORKING WITH CHROMATOGRAPHIC SYSTEMS – AGILENT 1100 HPLC-MS; HP-1090 HPLC</p>
<p>ARTISTIC SKILLS AND COMPETENCES <i>Music, writing, design, etc.</i></p>	<p>BULGARIAN FOLK DANCES (1976-1981 DANCER IN ENSEMBLE GABROVO)</p>
<p>DRIVING LICENCE(S)</p>	<p>CATEGORIES B, C, TKT AND M</p>
<p>ADDITIONAL INFORMATION</p>	<p>MARRIED, WITH TWO DAUGHTERS</p>
<p>ANNEXES</p>	<p>I) LIST OF BOOKS CHAPTERS II) LIST OF SCIENTIFIC PAPERS III) LIST OF CONFERENCES ORAL AND POSTER PRESENTATIONS IV) LIST OF PROJECTS</p>

I. Books Chapters

1. **Philip Taylor Edited by Nineta Majcen**,
© European Union, 2010, Luxembourg: Office for Official Publications of the European Communities ISBN: 978-92-79-12021-3. ISSN: 1018-5593.
Practical examples on Traceability, Measurement Uncertainty and Validation in Chemistry,
Kmetov, V., Vasileva, E., Chapter 2 Analysis of Gold Alloys by Flame Atomic Absorption Spectrometry
2. **Р. Борисова**, (in Bulgarian)
2009, Изд. Водолей ISBN 9789549415435
Основи на химичния анализ
В. Кметов (глава 13.2) Бюджет на неопределеност (**V. Kmetov Chapter 13.2 Uncertainty budget**)

II. List of scientific papers

1. **V. Kmetov, N. Nikolov, J. Dentchev** (SciFinder)
Universite de Plovdiv "P. Hilendarski" Travaux scientifiques, vol. 26. fasc.5, 1988-Chimie
Analytical application of micro sampling system MS-II in flame atomic absorption determination of Iron in samples containing aluminium
2. **G. Bekjarov, V. Kmetov, L. Futekov**
Fresenius' Journal of Analytical Chemistry, 335, 8, 971-974 (1989)
Trace analysis in highly concentrated salt solutions of sodium chloride and ammonium fluoride using flame atomic absorption spectrometry
3. **V. Kmetov, L. Futekov**
Fresenius' Journal of Analytical Chemistry, 338, 8, 895-897 (1990)
Flame atomic-absorption spectrometric determination of traces of copper, iron, lead and manganese in nitric acid by injection dosing of concentrated solutions neutralized with ammonia
4. **V. Stefanova, V. Kmetov, L. Futekov** (SciFinder)
Analytical Laboratory, 2, 3, 159-175 (1993)
Discrete techniques for sample introduction in ICP-MS (REVIEW)
5. **Z. Simeonova, G. Toneva, D. Dobрева, L. Bedrosian, V. Kmetov, L. Futekov** (SciFinder) (цит.1)
Analytical Laboratory, 2, 4, 258-265 (1993)
Determination of Pb and Cd in Whole Blood of Workers in a Non-ferrous Metal Factory
6. **A. Anselmi, P. Tittarelli, C. Biffi, V. Kmetov**
Rev. Combustibili, 48, 2, 53-65 (1994)
Comportamenti degli Elementi del Gruppo 14 in ETA-AAS: Interferenze Dovute alla Formazione di Vapori Molecolari
7. **P. Tittarelli, C. Biffi, V. Kmetov**
Journal of analytical atomic spectrometry, 9, 3, 443-449 (1994)
Vaporization of silicon and germanium as molecular species in electrothermal atomizers
8. **P. Tittarelli, A. Anselmi, C. Biffi, V. Kmetov**
Spectrochimica Acta Part B, 50, 1687-1701 (1995)
Formation of tin and lead molecular species in electrothermal atomizers
9. **V. Stefanova, V. Kmetov, L. Futekov**
Journal of Analytical Atomic Spectrometry, 12, 11, 1271-1276 (1997)
Air segmented discrete introduction in inductively coupled plasma mass spectrometry
10. **V. Stefanova, V. Kmetov, L. Futekov, D. Gerganska**
Analytical Laboratory, 6, 1, 31-42 (1997)
Flow Injection Multielemental analysis by upgraded ELAN 500 ICP-mass spectrometer.
Direct analysis of hard drinks
11. **E. Rosenberg, R. Krska, R. Wisiack, V. Kmetov, R. Josephs, E. Razzazi, M. Grasserbauer**
Journal of Chromatography A, 819, 1-2, 277-288 (1998)
High-performance liquid chromatography-atmospheric-pressure chemical ionization mass spectrometry as a new tool for the determination of the mycotoxin zearalenone in food and feed
12. **M. Mitrikov, A. Antonov, H. Hristov, A. Belov, V. Kmetov, J. Edrev, P. Zaprianova, P. Nedeva, G. Doikova**
Balkan Physics Letters, 4, 625-628 (2000)
Investigation the ecological state of the Maritza-iztok region in Bulgaria using different methods for analysis
13. **E. Rosenberg, V. Kmetov, M. Grasserbauer**
Fresenius' Journal of Analytical Chemistry, 366, 4, 400-407 (2000)
Investigating the potential of high-performance liquid chromatography with atmospheric pressure chemical ionization-mass spectrometry as an alternative method for the speciation analysis of organotin compounds
14. **Chr. Malakova, V. Stefanova, V. Kmetov**
University of Plovdiv "P. Hilendarski" Scientific works -Chemistry vol. 29. Book 5, 27-33 (2000)
Multi-elemental analysis of plants samples by ICP-MS
15. **V. Stefanova, V. Kmetov, D. Georgieva, L. Futekov**
University of Plovdiv "P. Hilendarski" Scientific works -Chemistry vol., 30, 5, 45-50 (2001)
Multielement responses of FI-ICP-MS. Influence of Ionization efficiency and mass discrimination effects
16. **V. Stefanova, V. Kmetov, D. Georgieva**

- University of Plovdiv "P. Hilendarski" Scientific works -Chemistry vol. 30, 5, 51-55 (2001)
ICP-MS application for trace element analysis in Bulgarian cosmetics
17. **V. Kmetov, D. Hristozov, V. Stefanova, S. Tenev, L. Futekov**
University of Plovdiv "P. Hilendarski" Scientific works -Chemistry vol. 30, 5, 57-61 (2001)
Computerized system for micro-sampling in FAAS. Software for signal acquisition and data treatment
18. **N. Bosev, V. Kmetov, V. Stefanova,**
University of Plovdiv "P. Hilendarski" Scientific works-Chemistry vol. 30. Book 5, (2001)
Extraction FAAS determination of Cu and Bi in zinc electrolyte by means of threeethylammonium dibenziltetrathiophosphate
19. **M. Mitrikov, V. Kmetov, V. Stefanova, O. Maslov, A. G. Belov, H. Hristov, A. Antonov**
University of Plovdiv "P. Hilendarski" Scientific works -Physics, 34, 4, 89-94 (2001)
Deposition of heavy metals and radionuclides in the region of the Plant for Non-ferrous metals-Plovdiv
20. **M. Mitrikov, H. Hristov, A. Antonov, V. Kmetov, V. Stefanova**
Bulgarian Nuclear Society, 6, 1, 35-38 (2001)
Deposition of heavy metals and radionuclides in the region of the Plant for Non-ferrous metals (Plovdiv) studied by the methods of Mass- and Gamma-spectrometry
21. **M. Mitrikov, A. Antonov, H. Hristov, G. Belev, V. Kmetov, V. Stefanova, J. Edrev, P. S. Zaprianova, P. Nedeva, G. Doikova**
Bulgarian Nuclear Society, 6, 1, 39-43 (2001)
Electric generation of Maritza-iztok coal-fired power plant in Bulgaria and its complex impact on the environment
22. **V. Kmetov, A. Sanchez, V. Stefanova, D. Hristozov, D. Georgieva, A. Canals** (Cited.1)
University of Plovdiv "P. Hilendarski" Scientific works-Chemistry vol., 31, 5, 17-28 (2002)
Determination of lead and cadmium in wool and goat's hair from animal population in the vicinity of Plant for Non-ferrous metals (Plovdiv) by ICP-MS and ETAAS methods.
23. **V. Stefanova, Chr. Malakova, J. Uzunova, V. Kmetov**
Union of Bulgarian Scientists Scientific works - Chemistry, 30, 5, 51 (2001)
Influence of solutions of low aliphatic alcohols on the element emission signals in ICP-OES
24. **M. Mitrikov, A. Antonov, H. Hristov, V. Kmetov, V. Stefanova, O. Maslov**
5-th General Conference of Balkan Physical Union, Vrnjacka Banja, Serbia and Montenegro, 12, 1463 (2003) <http://www.phy.bg.ac.yu/jdf/bpu5/proceedings/Papers/SP12%20-%20005.pdf>
Investigation of heavy metal atmospheric deposition in the region of the Plant for Non-ferrous metals - Plovdiv
25. **V. Kmetov, V. Stefanova, D. Hristozov, D. Georgieva, A. Canals**
Talanta, 59, 1, 123-136 (2003)
Determination of calcium, iron and manganese in moss by automated discrete sampling flame atomic absorption spectrometry as an alternative to the ICP-MS analysis
26. **V. Kmetov,**
Dissertation PhD (2003)
Discrete sample introduction of high dissolved solids content solution - applications in FAAS
27. **V. Stefanova, V. Kmetov, A. Canals**
Journal of Analytical Atomic Spectrometry, 18, 9, 1171-1174 (2003)
Application of internal standardization in ICP-QMS through discrete sample introduction methodologies
28. **D. Hristozov, C. Domini, V. Kmetov, V. Stefanova, D. Georgieva, A. Canals**
Analytica Chimica Acta, 516, 1-2, 187-196 (2004)
Direct ultrasound-assisted extraction of heavy metals from sewage sludge samples for ICP-OES analysis
29. **G. Bekyarov, M. Kakalova, V. Kmetov, V. Stefanova, D. Georgieva, K. Ivanov**
University of food technologies Plovdiv - Scientific works, LIII, 15,307 (2006)
International conference "Food science, engineering and technologies" Plovdiv 27-27 October 2006
Determination of Pb, Cd, As, Cu and Zn in natural fruit juices
30. **V. Stefanova, V. Kmetov and A. Canals**
University of Plovdiv "P. Hilendarski" Scientific works-Chemistry, 34, 5, 51 (2006)
Method for calculation of dead time correction and mass discrimination factor for isotope analysis of uranium by ICP-MS
31. **D. Georgieva, V. Stefanova, V. Kmetov, B. Almagro, A. Sanchez, A. Canals**
Union of Bulgarian Scientists Scientific, ISSN 1311-9192, B, 8, 105-109 (2007)
Spectral interferences from Ti in ICP-MS measurements of model solutions
32. **K. Simitchiev, V. Stefanova, V. Kmetov, A. Canals,**
Annuaire de L'Universite de Sofia "St. Kliment Ohridski", Faculte de Chimie, 100, 107-119 (2008)
Cloud Point Extraction of Pd, Pt and Rh complexes with 2-mercaptobenzothiazole as a preconcentration procedure for ICP-MS,
33. **Hr. Hristev, D. Penkov, V. Kmetov, B. Baykov, A. Bliznakov,**
Journal of Central European Agriculture, 9 (2008) 305.
Lead and cadmium content in washed and unwashed wool of sheep reared in regions with increased technogenic Clarc,
34. **K. Simitchiev, V. Stefanova, V. Kmetov, G. Andreev, N. Kovachev, A. Canals,**
J. Anal. At. Spectrom., 23, 717-726 (2008)
Microwave-assisted cloud point extraction of Rh, Pd and Pt with 2-mercaptobenzothiazole as preconcentration procedure prior to ICP-MS analysis of pharmaceutical products,
35. **K. Simitchiev, V. Stefanova, V. Kmetov, G. Andreev, A. Sanchez, A. Canals,**
Talanta, 77, 889-896 (2008)

Investigation of ICP-MS spectral interferences in the determination of Rh, Pd and Pt in road dust: Assessment of correction algorithms via uncertainty budget analysis and interference alleviation by preliminary acid leaching,

36. Ch. Christov, D. Penkov, V. Kmetov, B. Baykov, A. Bliznakov,

Agricultural University Plovdiv, Agricultural Science, II, 3 57-61 (2010),

Impact of the environment over the bioaccumulation of Pb and Cd in washed and non-washed goat hair from goats bred in a region with technogenic clark,

37. K. Simitchiev, E. Harizanova, V. Stefanova, V. Kmetov, N. Kovachev, A. Canals,

Asian Chemistry Letters, 15, 45-54 (2011)

Microwave-Assisted Cloud Point Extraction in Combination with Air Segmented Discrete Sample Introduction as a Green Method for Flame Atomic Absorption Analysis of Zn, Cu, Pb and Cd,

38. D. Georgieva, V. Stefanova, V. Kmetov, I. Roman, N. Kovachev, A. Canals,

Научни трудове на Пловдивския Университет на "П.Хилендарски", 38 (2011) 7

Application of bare and silica-coated MnFe₂O₄ magnetic nanoparticles as a sorbent for solid phase extraction and ICP-OES trace elements determination,

39. N. Kovachev, A. Sanchez, K. Simitchiev, V. Stefanova, V. Kmetov, A. Canals,

Int. J. Environ. Anal. Chem., 92, 1106-1119 (2012)

Microwave-assisted solid phase extraction prior to ICP-MS determination of Pd and Pt in environmental and biological samples,

40. St. Nachkova, V. Stefanova, K. Simitchiev, D. Georgieva, V. Kmetov, I. Karadjova,

Scientific Researches of the Union of Scientists in Bulgaria – Plovdiv (Series B), 14, 211-215 (2012)

Application of chemometric methods for interpretation of data from ICP-MS analysis of surface waters,

41. L. Georgieva, I.P. Román, V. Stefanova, V. Kmetov, A. Canals,

Scientific Researches of the Union of Scientists in Bulgaria– Plovdiv (Series B), 14, 206-210 (2012)

Headspace single drop microextraction as a green method for organotin compounds GC-MS determination,

42. V Stefanova, D Georgieva, V Kmetov, I Roman, A Canals

J. Anal. At. Spectrom., 27, 1743-1752 (2012)

Unmodified manganese ferrite nanoparticles as a new sorbent for solid-phase extraction of trace metal-APDC complexes followed by inductively coupled plasma mass spectrometry analysis,

43. L. Georgieva, I. Román, V. Stefanova, V. Kmetov, A. Canals

Journal of International Scientific Publication: Ecology & Safety, 4, , 316-322, (2012)

Ionic liquids used as a green approach in headspace single drop microextraction and GC-MS determination of organotin compounds

44. K. Ivanov, P. Zaprianova, M. Petkova, V. Stefanova, V. Kmetov, D. Georgieva, V. Angelova, Spectrochimica Acta Part B, 71-72, 117-122, (2012)

Comparison of inductively coupled plasma mass spectrometry and colorimetric determination of total and extractable phosphorus in soils

II. Conferences

1. Bekjarov, W. Stefanova, Z. Bekjarova, L. Futekov

XXVI Colloquium Spectroscopicum Internationale, 1988 vol.III, V-10, 79

Determination of impurities in neodymium oxide by ICP-AES

2. V. Stefanova, V. Kmetov, E. Uzunova, L. Futekov

III Symposia of Instrumental and Analytical Spectrometry and Chromatography SIAS'92, 8-10 sept. 1992

New ICP-MS method for multielement semiquantitative analysis. Tobacco products analysis.

3. V. Stefanova, V. Kmetov, L. Futekov

XXVIII Colloquium Spectroscopicum Internationale; York UK; 29.06-4.07, 1993 WP6.2

Influence of reference isotopes for ion optics optimisation on ICP-MS Semiquantitative capabilities

4. V. Kmetov, V. Stefanova, P. Penchev, L. Futekov, J. Tyson

PERKIN ELMER Seminar 22-23 March 1994

Flow Injection Sample Introduction in ICP-MS

5. V. Kmetov, V. Stefanova, L. Futekov

V Symposia of Instrumental and Analytical Spectrometry and Chromatography SIAS'94, 21-23 sept. 1994

Electrothermal Vaporization Sampling in ICP-MS using Graphite Furnace

6. V. Stefanova, V. Kmetov, L. Futekov

V SIAS'95 20-22 September, 1995, AES-P6;

Air segmented discrete introduction in ICP-MS

7. V. Stefanova, V. Kmetov, L. Futekov, R. Fandakova

III National Chemistry Conference - April 1998, V/41

Air-Segmented Discrete introduction ICP-MS method for direct analysis of trace elements in Sea water

8. V. Kmetov, V. Stefanova, P. Konstantinov, L. Futekov

Scientific session "75 anniversary. Analytical Chemistry Department at University of Sofia St. Kliment Ohridski" 27 May 1999 Sofia

Indirect method for determination of AgI in pyrotechnical materials by FAAS analysis of Ag in high concentrated solutions

9. V. Stefanova, V. Kmetov, D. Georgieva, L. Futekov

Scientific session "75 anniversary. Analytical Chemistry Department at University of Sofia "St. Kliment Ohridski" 27 May 1999 Sofia

Algorithm of internal standard application for transient signals generated by ICP-MS

10. V. Kmetov, A. Canals, V. Stefanova, L. Futekov (oral presentation)

- Scientific Session University of Plovdiv "P. Hilendarski", 19 May 2000, Plovdiv
Some observations on the process of aerosol generation and transport used for trace elements analysis by atomic spectroscopy methods.
- 11. Hr. Malakova, V. Stefanova, V. Kmetov**, (oral presentation)
Scientific Session University of Plovdiv "P. Hilendarski", 19 May 2000, Plovdiv
Multi-element analysis of plants samples by ICP-MS
- 12. V. Stefanova, V. Kmetov, D. Georgieva, L. Futekov**
Jubilee Chemistry Conference 40-years University of Plovdiv "P. Hilendarski", 21-22 May 19 2001 Plovdiv; P12,
<http://www.argon.acad.bg/chemistry40/>
Multi element responses of FI-ICP-MS. Influence of ionisation efficiency and mass discrimination effects
- 13. V. Stefanova, V. Kmetov, D. Georgieva**,
Jubilee Chemistry Conference 40-years University of Plovdiv "P. Hilendarski", 21-22 May 19 2001 Plovdiv; P11,
<http://www.argon.acad.bg/chemistry40/>
Application of ICP-MS for trace elements analyses in Bulgarian cosmetics.
- 14. N. Bossev, V. Kmetov, V. Stefanova**,
Jubilee Chemistry Conference 40-years University of Plovdiv "P. Hilendarski", 21-22 May 19 2001 Plovdiv; P17,
<http://www.argon.acad.bg/chemistry40/>
Extraction FAAS determination of Cu and Bi in zinc electrolyte by means of 3-ethyl ammonium-dibenzil-tetrathio phosphate (EABTP).
- 15. V. Kmetov, V. Stefanova, D. Georgieva, L. Futekov**
IV National Chemistry Conference – Sofia 27-29 September 2001, 4P9
Analysis of jewellery gold alloys after desolvation and micro-injection in FAAS and ICP-MS
- 16. V. Stefanova, Chr. Malakova, J. Uzunova, V. Kmetov**
Union of Bulgarian Scientists – Scientific Session Agrarian and Natural Sciences, Technique and Technology, 30 Nov. 2001, Plovdiv, P10
Influence of solutions of low aliphatic alcohols on the element emission signals in ICP-OES
- 17. V. Kmetov, A. Sanchez, A. Canals, D. Georgieva, V. Stefanova**
5th European Furnance Symposium and 10th International Solid Sampling Colloquium with Atomic Spectrometry, 1-4 September 2002,
South-West University "Neofit Rilski", Blagoevgrad, P28, 90
Determination of lead and cadmium in wool and goat's hair from animal population in the vicinity of Plant for non-ferrous metals (Plovdiv)
by ETAAS and ICP-MS methods.
- 18. V. Kmetov, A. Sanchez, D. Georgieva, V. Stefanova**
Scientific Session of the University of Plovdiv, 6-7 June 2002 Koprivkite; P3
Determination of lead and cadmium in wool and goat's hair from animal population in the vicinity of Plant for non-ferrous metals (Plovdiv)
by ETAAS and ICP-MS methods.
- 19. V. Stefanova, V. Kmetov**
2003 European Winter Conference on Plasma Spectrochemistry 12-17 January,
Garmish-Partenkirchen – Gernay (Poster P-In-039)
Algorithm for application of internal standard on ICP-MS transient signals
- 20. V. Kmetov, V. Stefanova**,
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Ultrasound and microwave activation in Analytical Chemistry at the University of Alicante
- 25. K. Simitchiev, V. Stefanova, V. Kmetov, A. Canals, A. Sanchez**
Annual Scientific Session Technique and Technology, Natural and Human Sciences – 22.10. 2004 Plovdiv
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A method for separation and preconcentration by cloud point extraction with 2-mercaptobenzthiazole and Triton X-100 for ICP-MS

analysis of Rh, Pd and Pt

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Microwave Acceleration of the Cloud Point Extraction Preconcentration Procedure (lecture)

33. K. Simitchiev, V. Stefanova, V. Kmetov, G. Andreev, N. Kovachev, A. Canals

Chemistry Days in the Chemistry Department of Trakya University, Edirne, Turkey, 23-24 May.2007

Cloud point extraction of platinum group metals: activation by high-energy microenvironments

34. K. Simitchiev, V. Stefanova, V. Kmetov, G. Andreev

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Direct Determination versus Cloud Point Extraction for ICP-MS Analysis of Rh, Pd, and Pt

in Pharmaceutical Products

35. V. Kmetov, K. Simitchiev, V. Stefanova, A. Canals (oral presentation)

COST D32 WG 005/04 seminar 11 - 12 October, 2007, University of Jyväskylä, Finland

Microwave-assisted Cloud Point Extraction: further developments

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Sixth International Conference of the Chemical Societies of the South-Eastern European Countries 10-14 September 2008, Sofia, Bulgaria, 4-007

Impact of preliminary chemical separation on the combined uncertainty of atomic spectrometry results

37. I. Román, D. Bozhilov, V. Kmetov, V. Stefanova, A. Chisvert, A. Salvador, A. Canals,

I Workshop on Analytical Miniaturization ("lab-on-a-chip"). Alcalá de Henares, Madrid (Spain), 21-22 July, 2008

Solid phase microextraction with coated-magnetic nanoparticles of UV-filters and HPLC separation.

38. K. Simitchiev, V. Stefanova, V. Kmetov, N. Balimezov, G. Andreev, A. Canals

6-th International Conference of the Chemical Societies of the South-Eastern European Countries 10-14 Sept. 2008, Sofia, Bulgaria, 4-P29

A comparison study of the non-spectral matrix effects when different ligands were used for microwave-assisted cloud point

preconcentration of Rh, Pd and Pt prior to ICP-MS, ICP-OES or ETAAS analyses

39. K. Simitchiev, N. Balimezov, V. Stefanova, V. Kmetov, G. Andreev, A. Canals

7-th Chemistry Conference (International event) “St. St. Kirik and Julita”, 10-11 October, 2008.

Ligand related kinetic effects in cloud point extraction of Rh, Pd and Pt

40. I. Román, D. Bozhilov, V. Stefanova, V. Kmetov, A. Chisvert, A. Salvador, A. Canals

Union of Bulgarian Scientists – Scientific Session Agrarian and Natural Sciences, Technique and Technology, 5 November, 2008, Plovdiv

Solid phase microextraction by magnetic nanoparticles – applications for determinations of uv filters in cosmetics sun protective creams

41. Iván Román¹, Dimitar Bozhilov, Veselin Kmetov, Violeta Stefanova, Alberto Chisvert, Amparo Salvador, Antonio Canals

IUMA – conference, Instituto Universitario de Materiales de Alicante 22-23 January 2009 Alicante Spain

Synthesis and characterization of magnetic-coated nanoparticles for extraction and analysis of UV-filters

42. K. Simitchiev, V. Stefanova, V. Kmetov, N. Kovachev, A. Canals

COST D32 Chemistry under High-Energy Microenvironments, Final Meeting, 29 Mar. 1Apr. 2009, Krakow, Poland

Development of Green Analytical Chemistry concept by alternative energy sources (MW and US) stimulation of CPE preconcentration procedure

43. K. Simitchiev, V. Stefanova, V. Kmetov, N. Kovachev, A. Canals

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Microwave-assisted and ultrasound-assisted cloud point extraction: perspectives for application as green analytical methods

44. C. Bendicho, A. Canals, G. Cravotto, C. Domini, S. Elmachaliy, A. Gedanken, A. Ilander, V. Kmetov, F. Marken, H.

Matusiewicz, F.J.Pena, E. Psillakis, I. Román, K. Simitchiev, M. Ślachciński, V. Stefanova, A. Vaisanen, L. Vida

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Outcomes from the collaboration between COST Action D32 members and University of Alicante

45. I. Román, D. Bozhilov, V. Kmetov, V. Stefanova, A. Chisvert, A. Salvador, A. Canals

NANOSPAIN 2009 Conference 09-12 March 2009 Zaragoza Spain

Analysis of UV-filters in water samples by solid phase microextraction with coated-magnetic nanoparticles

46. I. Román, D. Bozhilov, V. Kmetov, V. Stefanova, A. Chisvert, A. Salvador, A. Canals,

Scientific conference of the Institute of New materials, University of Alicante, 2009

Synthesis and characterization of magnetic-coated nanoparticles for extraction and analysis of UV filters,

47. I. Román, D. Bozhilov, V. Kmetov, V. Stefanova, A. Chisvert, A. Salvador, A. Canals,

Workshop on analytical miniaturization (Lab-on a-chip), Valensia, Spain, 2009

- Solid phase microextraction of UV-filters with coated MNPs and HPLC separation,
- 48. St. Nachkova, V. Stefanova, K. Simitchiev, D. Georgieva, V. Kmetov, I. Karadjova,**
8-th Chemistry Conference, Faculty of Chemistry, University of Plovdiv, Koprivshtitsa, Bulgaria, 18-19 June 10, P-15
Development of a green ICP-MS method for monitoring of trace elements relevant to the regulations of EU water frame directive,
- 49. D. Georgieva, Z. Valkova, V. Paskaleva, V. Stefanova, V. Kmetov, I. Roman, A. Canals,**
8-th Chemistry Conference, Faculty of Chemistry, University of Plovdiv, Koprivshtitsa, Bulgaria, 18-19.06.2010, P-13
Application of magnetic nanoparticles for preconcentration of trace elements by solid phase extraction,
- 50. D. Georgieva, V. Stefanova, V. Kmetov, I. Román, A. Canals,**
European winter conference on plasma spectrochemistry, 30.01-3.02. 2011, Zaragoza, Spain
Magnetic nanoparticles solid phase extraction of trace metals - APDC complexes prior to inductively coupled plasma - mass spectrometry analysis,
- 51. K. Simitchiev, V. Stefanova, V. Kmetov, A. Canals,**
European winter conference on plasma spectrochemistry, 30.01-3.02. 2011, Zaragoza, Spain PC-097
Microwave-assisted cloud point extraction in combination with plasma spectrometry techniques for multielemental trace analysis, European
- 52. V. Kmetov** (oral presentation)
II National scientific symposium with international participation "Industrial metrology in Bulgaria – status and" 20-23 July 2011 Complex "Ledenika" "Nuclear Plant Kozlodui" Vratsa
Metrology teaching in the Faculty of Chemistry at the University of Plovdiv "P. Hilendarski",
- 53. Kr. Ivanov, V. Stefanova, M. Petkova, V. Kmetov, P. Zayirianova, D. Georgieva and V. Angelova,**
CSI, XXXVII Colloquium Spectroscopicum Internationale, Rio de Janeiro, Brazil, Aug.28-Sept. 2, 2011, TU32
Comparison of ICP-MS and colorimetric determination of total and extractable phosphorous in soils,
- 54. D. Georgieva, V. Stefanova, V. Kmetov, I. Román, N. Kovachev, A. Canals,**
Analytical nanoscience and nanotechnology, 21-23 September 2011, Toledo, Spain
ICP-OES trace elements determination after solid phase extraction on non-modified and silica-coated manganoferrite nanoparticles,
- 55. N. Kovachev, M. A. Aguirre, M. Hidalgo, K. Simitchiev, V. Stefanova, V. Kmetov and A. Canals,**
9-th Chemistry Conference AND Workshop BioSupport, Faculty of Chemistry, University of Plovdiv, Plovdiv, Bulgaria, 14-16.10.2011, P-8
Elemental speciation by capillary electrophoresis with inductively coupled plasma spectrometry: enhancement by flow focusing@ nebulization,
- 56. D. Georgieva, V. Stefanova, V. Kmetov, I. Román, N. Kovachev, A. Canals,**
9-th Chemistry Conference, Faculty of Chemistry, University of Plovdiv, Plovdiv, Bulgaria 14-16 October 2011, P-9
Application of bare and silica-coated MnFe₂O₄ magnetic nanoparticles as a sorbent for solid phase extraction and ICP-OES trace elements determination,
- 57. E. Varbanova, V. Stefanova, D. Georgieva, Kr. Ivanov, S. Petrova, L. Yurukova,**
9-th Chemistry Conference, Faculty of Chemistry, University of Plovdiv, Plovdiv, Bulgaria 14-16 Oct. 2011, P-11
Simultaneous determination of P, S, K, other essential and trace elements in plant and soil samples by ICP-MS,
- 58. P. Shegunova, K. Simitchiev, V. Stefanova, V. Kmetov, E. Rosenberg, A. Canals,**
9-th Chemistry Conference AND Workshop BioSupport, Faculty of Chemistry, University of Plovdiv, Plovdiv, Bulgaria, 14-16.10.2011, P-12
Application of cloud point extraction for complex investigation of organic pollutants and trace elements in canned fish,
- 59. Eva Fernandez-Diez, Robert Jirasko, Veselin Kmetov, George A. Zachariadis, Erwin Rosenberg,**
1st annual conference of the Czech Society for Mass Spectrometry (CSMS), Hradec Kralove, Czech Republic, 19-21 October 2011
Elemental Speciation by ESI-and APCI-MS
- 60. St. Nachkova, V. Stefanova, K. Simitchiev, D. Georgieva, V. Kmetov,**
Union of Bulgarian Scientists – Scientific Session Technique and Technology, Natural Sciences and Humanitarians", Plovdiv, 10 Nov.2011
Application of chemometric methods for interpretation of data from ICP-MS analysis of surface waters
- 61. Detcheva, R. Georgieva, E. Ivanova, J. Jordanov, V. Stefanova, St. Nachkova, V. Kmetov,**
37-th International Symposium on Environmental Analytical Chemistry, 22-25 May 2012 Antwerp, Belgium
Determination of Toxic and Essential Elements in Bottled Bulgarian Mineral Waters by Means of ICP-MS and TXRF
- 62. V. Kmetov and A. Canals,** (oral presentation)
Agilent, TEAM ANALYTICA 2012, 30-31 May 2012
GAMA project Bulgarian-Spain collaboration for development of green analytical methods
- 63. V. Kmetov** - (oral presentation)
ACM2, Thermo & BioSupport seminar, Trimoncium Princess Hotel Plovdiv, 5-6 June (2012).
Trace elements determination in food and environmental samples.
- 64. Varbanova, E., Stefanova, V., Georgieva, D., Kmetov, V.**
International Scientific Events, Ecology and safety, 8-12 June 2012, Sunny Beach, Bulgaria.
Trace elements determination in Al foil used in food industry.
- 65. Georgieva, L., Roman, I., Stefanova, V., Kmetov, V., Canals, A.**
International Scientific Events, Ecology and safety, 8-12 June 2012, Sunny Beach, Bulgaria.
Ionic liquids used as a green approach in headspace single drop microextraction and GCMS determination of organotin compounds.
- 66. K. Simitchiev, V. Stefanova, V. Kmetov, P. Penchev, V. Zapryanova, K. Gavazov, T. Stefanova, N. Kovachev, A. Canals,**
University of Technology, Vienna, Austria, Seminar 'Modern Analytical Chemistry', Vienna, 26 April 2013
Cloud Point Extraction - a Modern Alternative to Liquid-Liquid Extraction

III. Research projects

1. Bulgarian National Science Found KN-86 (1986-1988)

Development of automatic system for FAAS analysis.

2. Government Agency of Industrialization and Technology Contract N 8 (1988-1991)

High purity substances. Methods of trace elements $10^{-5}\%$ - $10^{-7}\%$

3. Bulgarian National Science Found X-203/92 (1992-1994)

ICP-MS – development of method for ETV-sampling by graphite furnace. Applications for contaminations control in biological and environmental samples.

4. Bulgarian National Science Found X-467/94 (1994-1997)

Discrete sample introduction in ICP-MS.

5. University of Plovdiv Science Found PU N 25 (1997-1999)

Control of toxic elements in cosmetics according to the European regulations. New methods for sample introduction in ICP-MS.

6. Ministry of Environment and Waters NCEUR (1999)

Investigations of the level of contamination with heavy metals and uranium in Bulgarian North-West border with Yugoslavia as result of military actions of NATO due to the Kosovo conflict.

7. University of Plovdiv Science Found PU 03-F-21 (2001-2003)

Study of the contamination with heavy metals and radionuclides in water, soil and bio products from the region of Lead factory KCM Plovdiv and Power plant Maritsa Iztok

8. University of Plovdiv Science Found PU 03-X-26 (2003-2004)

Development and application of system for uncertainty characterization in atomic spectrometry measurements, according to the European metrological requirements

9. University of Plovdiv Science Found PU, ИС-X-2 (2008-2010),

Investigations of food and bio samples by means of HPLC

10. University of Plovdiv Science Found PU, PHH-09-XΦ-002 (2009-2010),

Centre of Chemistry and Physics of new materials

11. INCO-COPERNICUS CT 98-0334 (2003-2004) Lead and Cadmium determination in fresh food. (In the frame of activities of INCO-COPERNICUS PL JUSTUS-LIEBIG-UNIVERSITY GIESSEN "Health risk of heavy metals in the food chain of industrial areas in Central and Eastern Europe"

12. Ministry of Science and Technology – Spain, Project DPI2002-04305-C02-01 - Universidad de Alicante (2002-2005)

Desarrollo de un sistema de introduccion de muestras liquidas adecuado para un instrumento de ICP-MS provisto de una celula de colision- Project Leader Prof. Dr. A. Canals

13. COST D32 WG005/04 (2004-2008)

Microwaves and ultrasound activation in chemical analysis Project Leader Prof. Dr. A. Canals

14. Ministerio de Ciencia y Tecnologia, University of Alicante, CTQ2005-09079-C03-01 (2005-2008),

Desarrollo de nuevos nebulizadores basados en la tecnologia "Flow Focusing" y "anti-Flow Focusing" para su uso como sistema de introducciyn de muestras liquidas en espectrometria atomica/masas e interfase en microelectroforesis capilar, ръководител на проекта: Prof. Dr. Antonio Canals,

15. Project on VI Framework Program of EC, (2006-2009),

Production of Knowledge Revisited (PROKNOW) ръководител на проекта: доц. д-р Чалъков,

16. Bulgarian National Science Found DO 02-70 / 11.12.2008 (2008-2012)

University centre for development of green chemistry methods for trace analysis of environmental objects (GAMA - Green Analytical Methods Academic Centre)

17. Bulgarian National Science Found DDVU 02/39-20.12.2010 г (2010-2013)

Mass spectrometry methods for complex investigation of toxic elements and hazardous organic contaminants in food.

18. Seventh Framework Programme, EC Project N 245588, (2009-2013),

Strengthening the University of Plovdiv research potential in plant systems biology and food biotechnology (BioSUPPORT) , Coordinator Prof. Ivan Minkov

19. European Regional Development Fund (2012-2014),

OP „Development of the Competitiveness of the Bulgarian Economy“ 2007-2013 г.

Construction of capacity for technology transfer at the University of Plovdiv. Technological Transfer Office.

Educational projects:

1. TEMPUS IMG - 95- BG 2010 -University of Alicante Spain April-July (1996)

Teachng acigment Modern Analytical Chemistry: Environmental Analysis and Instrumental Methods

2. TEMPUS JEP –12451-97 (1997- 2000)

Restructuring of the university chemistry education in Bulgaria: curricula and study programmes for Bachelor degree – 1997- 2000 Project Leader

3. FP7 - TrainMiC – JRC IRMM (2003-2008)

Training Metrology in Chemistry

Applied projects:

More than 100 applied projects with contracting institutions, companies and firms:

- **Enterprises:** KCM 2000 S.A.; AGRIA S.A.; Alen Mak cosmetics S.A.; KALA Cosmetics; Biomeda Ltd; Inter Deo Ltd; Rosa Impex Cosmetic Company; SOLVEX Cosmetic Products; INTERGALENIKA Ltd; TEREM S.A., NEC-BELI, BIOVET S.A. ; DZU S.A; Ideal Standard S.A.; AURUBIS Bulgaria S.A.; EUROPROJECT Ltd.; Lormet Bulgaria Ltd; Vesta Ind Ltd; Komihris Ltd., PG-Pharma, Biopharma; Laboratoris Ltd; SIENDSYS S.A; Hospice MEDEA Ltd. Di and Vi Consult Ltd. – ALIMENTI.
- **Scientific organizations:** University of Food and Food Technology, Agrarian University; Medical University; Institute for Nuclear Research and Nuclear Energy; BAS Institute of General and Inorganic Chemistry; BAS - Institute of Biodiversity and Ecosystem Research (IBER); Maritsa Vegetable Crops Research Institute.
- **Government institutions and NGO:** Regional Health Inspection; Executive Environment Agency; Ministry of Environment and Water; Green Balkans NGO,