



## CURRICULUM VITAE

(FNSF-2006)

<b>Name</b> Simeonov Vasil Dragomirov : (Family Name, First Name, Middle Name)	
<b>Date of</b> 10.02.1944	<b>Birthplace:</b> Asenovgrad, Bulgaria
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<b>Education</b> (University / High School, Faculty / Department, Course, Year of Graduation): University of Sofia "St. Kl. Okhridski", Faculty of Chemistry, MS in Chemistry – science profile, 1968	
<b>Honours/Titles/Qualifications</b> (Organization, Title, Year of Award): University of Sofia, Faculty of Chemistry, PhD, 1980 University of Sofia, Faculty of Chemistry, DSc (Doctor of Sciences), 2000 University of Sofia, Faculty of Chemistry, Professor of Analytical Chemistry, 2002	
<b>Previous Experience</b> (Organization, Position, Title, Dates): Central Laboratory of Photographic Processes, Bulgarian Academy of Sciences, Research associate, 1968 - 1974	
<b>Major Fields of Scientific Research</b> (Keywords): Environmental analytical chemistry, chemometrics, environmetrics, multivariate statistical modeling, intelligent data analysis	
<b>Membership in Scientific and/or Professional Institutions, Bodies, and Organizations:</b> Member of the Editorial board of Journal of Balkan Ecology, International Journal of Physics Studies Member of International Chemometric Society	



**NATIONAL SCIENCE FUND**  
MINISTRY OF EDUCATION AND SCIENCE

**Professional and Scientific Awards:**

Fritz-Feigl Award of the Austrian Chemical Society

**Foreign Languages** (Level of Proficiency): **Indicate competence on a scale from 1 to 5 ( where 1 is poor and 5 is excellent**

Language	Reading	Speaking	Writing
German	5	5	5
English	5	5	5
Russian	5	5	5
Italian	5	3	5

**International Experience** (Country, Institution, Duration, Year):

Austria, Vienna University of Technology, 1 year, 1976 – 1977

Belgium, Free University of Brussels, 1 year, 1999

Greece, Aristotle University of Thessaloniki, 6 months, 1981

**References:**

1. Acad. Prof. Dr. Panayot Rankov Bontchev, Faculty of Chemistry, University of Sofia
2. Prof. Dr. Dimiter Lyubomirov Tsalev, Faculty of Chemistry, University of Sofia
3. Prof. Dr. Hanns Puxbaum, Vienna University of Technology, Austria

**Principal Publications<sup>2</sup>:**

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<sup>2</sup> Continue on a separate sheet, if necessary.



Prof. Dr. V. Simeonov :List of publications (2004 – 2008)

1. I. Stanimirova, M. Daszykowski, D. L. Massart, F. Questier, **V. Simeonov** and H. Puxabaum. Chemometrical Exploration of the Wet Precipitation Chemistry from the Austrian Monitoring Network (1988-1999). *J.Envir. Manag.*, **74**, 2005, 349 –363.
2. I. Stanimirova, B. Walczak, D. L. Massart and **V. Simeonov**. A Comparison between two Robust PCA Algorithms. *Chemom. Intel. Lab. Syst.*, **71**, 2004, 83 -95.
3. I. Stanimirova, B. Walczak, D. L. Massart, **V. Simeonov**, C. A. Saby and E. Di Crescenzo. STATIS, a 3 –way Method for Data Analysis. Application to Environmental Data. *Chemom. Intel. Lab. Syst.*, **73**(2), 2004, 219-233.
4. Th. Spanos, **V. Simeonov**, S. Tsakovski and D. Thiokas. Chemometric Study of Soil Analysis Data. *Central European J. Chem.*, **2**(2), 2004, 402-416.
5. **V. Simeonov**. Environmetric Strategies to Classify, Interpret and Model Risk Assessment and Quality of Environmental Systems. *Technological Choices for Sustainability* (S. Sikdar, P. Glavic, R. Jain Eds.), Springer, Berlin – Heidelberg, 2004 pp. 147-164. ISBN 3-540-21131-4
6. G.Mihailov, **V. Simeonov**, N. Nikolov and G. Mirinchev. Multivariate Statistical Assessment of the Pollution Sources Along the Stream of Kamchia River, Bulgaria. “*Environmental Protection Technologies for Coastal Areas*”. *Fourth Black Sea International Conference, June 9-11, 2004, Varna Bulgaria. Book of Proceedings*, 68-76. ISBN
7. **V. Simeonov**, J. W. Einax, S. Tsakovski and J. Kraft. Multivariate Statistical Assessment of Polluted Soils. *Centr. Europ. J. Chem.*, **3** (1), 2005, 1 – 9.



8. S. Tsakovski, P. Barbieri, H. Bauer, H. Puxbaum and **V. Simeonov**. Multivariate Statistical Modeling of Urban Aerosol Monitoring Data. *Ecol. Chem. Eng.*, **11**(6), 2004, 489 – 496.
9. **V. Simeonov**, G. Zachariadis, D. Voutsas, J. Stratis, A. Anthemidis, C. Samara, S. Tsakovski, Th. Kouimtzis, P. Simeonova and G. Andreev. Lake Water Quality Assessment by Multivariate Statistical Analysis. *Ecol. Chem. Eng.*, **11**(6), 2004, 471 – 488.
10. D. Antonova, L. Antonov, V. Petrov, **V. Simeonov**, S. Tsakovski, S. Bauer and W. Flueckiger. Environmetric Assessment of Pollutant Concentrations Effects on Forest Ecosystems. *Ecol. Chem. Eng.*, **11**(6), 2004, 439 – 448.
11. V. Simeonov, S. Tsakovski, T. Lavric, P. Simeonova and H. Puxbaum. Multivariate Statistical Assessment of Air Quality. A Case Study. *Microchim. Acta*, **148**, 2004, 293 – 298.
12. V. Simeonov, P. Simeonova and R. Tsitouridou. Chemometric Quality Assessment of Surface Waters: Two Case Studies. *Ecol. Chem. Eng.*, **11**(6), 2004, 450-469.
13. S. Nikolova – Eddins, D. F. Williams, **V. Simeonov**, S. Tsakovski and P. Simeonova. Sources of Organic Carbon to Bottom Sediments in an Atlantic Coastal Plain Estuary. *Ecol. Chem. Eng.*, **11**(10), 2004, 1023-1037.
14. I. Stanimirova and **V. Simeonov**. Modeling of Environmental Four-way Data from Air Quality Control. *Chemom. Intel. Lab. Syst.*, **77**(1-2), 2005, 115 -121.
15. R. Tsitouridou and **V. Simeonov**. Environmetrics to Assess Monitoring Data Quality: A Case Study of Aerosol and Rainwater Collection. In: Trends in Air Pollution Research (J. V. Livengston Ed.) NOVA Science Publishers, Inc., 2005, ISBN 1-59454-326-7.
16. G. Mihailov, **V. Simeonov**, N. Nikolov and G. Mirinchev. Multivariate Statistical Assessment of the Pollution Sources along the Stream of Kamchia River, Bulgaria. *Water Sci. Technol.*, **51**(11), 2005, 37-43.
17. **V. Simeonov**. Environmetrics and Sustainable Development. Book of Proceedings of Summer School “Chemometric Aspects of Environmental Analysis”, CEEAM, Gdansk, 2005. ISBN 83-919081-9-4



18. P. Simeonova, C. Sarbu, Th. Spanos, **V. Simeonov** and S. Tsakovski. An Advanced Multivariate Statistical Approach to Study Costal Sediment Data. *Centr. Europ. J. Chem.*, **4**(1), 2006, 68–80.
19. P. Simeonova, **V. Simeonov**, L. Lux, I. Dakova, Th. Spanos. Chemometric Evaluation of the Air Quality in an Industrial Region. Case Study Kosice, Slovakia. *Chem. Eng. Ecol.*, **12**(7), 2005, 727–737.
20. P. Simeonova, V. Lovchinov, **V. Simeonov**. Environmetrics in Risk Assessment. Proceedings of SENS'2006 (*Second Scientific Conference with International Participation on Space, Ecology, Nanotechnology, Safety*), 14-16 June 2006, Varna, Bulgaria, pp.499-504. ISBN 13-978-954-9401-12-7
21. **V. Simeonov**, S. Tsakovski and P. Simeonova. Air Quality Assessment by Multivariate Statistics. Proceedings of SENS'2006 (*Second Scientific Conference with International Participation on Space, Ecology, Nanotechnology, Safety*), 14-16 June 2006, Varna, Bulgaria, pp.646-651. ISBN 13-978-954-9401-12-7.
22. A. Astel, G. Glosinska, T. Sobczynski, L. Boszke, **V. Simeonov**, J. Siepak. Chemometrics in the Assessment of the Sustainable Development Rule Implementation. *Centr. Europ. J. Chem.*, **4** (3), 2006, 543-564.
23. **V. Simeonov**. How to balance Environmental Data. *Chemometrics. Methods and Applications*. D.Zuba and A. Parczewski Eds., Institute of Forensic research Publishers, Krakow, 2006. ISBN 83-87425-72-9.
24. P. Simeonova, **V. Simeonov**. Chemometrics to Evaluate the Quality of Water Sources for Human Consumption. *Microchim. Acta*, **156** (3-4) 2007, 315-320.
25. **V. Simeonov**, L. Wolska, A. Kuczynska, J. Gurwin, S. Tsakovski, M. Protasowicki, J. Namiesnik. Sediment-quality Assessment by Intelligent Data Analysis. *TrAC*, **26**(4), 2007, 323-331.
26. **V. Simeonov**, L. Wolska, A. Kuczynska, J. Gurwin, S. Tsakovski, J. Namiesnik. Chemometric Estimation of Natural Water Samples using Toxicity Tests and Physicochemical Parameters. *Crit. Rev. Anal. Chem.*, **37**(2), 2007, 81-90.
27. B. B. Ivanova, **V. D. Simeonov** M.G. Arnaudov, D. L. Tsalev. Linear-Dichroic Infrared Spectroscopy – Validation and Experimental Design of the New Orientation



- Technique of Solid Samples as Suspension in Nematic Liquid Crystal. *Spectrochim. Acta*, Part A, **67(1)**, 2007, 66-75.
28. A. Papaioannou, **V. Simeonov**, P. Plageras, E. Dovriki, Th. Spanos. Multivariate Statistical Interpretation of Laboratory Clinical Data. *Centr. Europ. J. Med.*, **2(3)**, 2007, 319-334.
29. Pavlina Simeonova, Vasil Lovchinov, **Vasil Simeonov**. Multivariate Statistical Assessment of the Ropotamo River Water Quality. *J. Balk. Ecol.*, **10(2)**, 2007, 197-204.
30. K. Szczepaniak, A. Astel, **V. Simeonov**, S. Tsakovski, M. Biziuk, P. Bode, A. Przyjazny. Comparison of Dry and Living *Sphagnum palustre* Moss Samples in Determining their Biocumulative Capability as Biomonitoring Tools. *J. Environ. Sci. Heal., Part A: Toxic/Hazardous Substances and Environmental Engineering*, **42(8)**, 2007, 1101-1115.
31. P. Simeonova, **V. Simeonov**. Multivariate Statistical Interpretation of Laboratory Clinical Data. *Ecol. Chem. Eng.*, **14(2)**, 2007, 159-170.
32. **V. Simeonov**. Receptor Modeling of Air Contaminants. *Ecol. Chem. Eng.*, **14(7)**, 2007, 669-691.
33. A. Astel, S. Tsakovski, P. Barbieri, **V. Simeonov**. Comparison of Self-Organizing Maps Classification Approach with Cluster and Principal Components Analysis for Large Environmental Data Sets. *Water Res.*, **41(19)**, 2007, 4566-4578.
34. P. Simeonova, V. Lovchinov, **V. Simeonov**. Data Interpretation using Multivariate Statistics for an Aerosol Sample Collection from Northern Greece. *J. Balk. Ecol.*, **10(3)**, 2007, 299-306.
35. A. Astel, B. Walna, **V. Simeonov**, I. Kurzyca. Multivariate Statistics as Means of Tracking Atmospheric Pollution Trends in Western Poland. *J. Environ. Sci. Heal., Part A: Toxic/Hazardous Substances and Environmental Engineering*, **43(3)**, 2008, 313-328.
36. A. Astel, S. Tsakovski, **V. Simeonov**, E. Reisenhofer, S. Piselli, P. Barbieri. Multivariate Classification and Modeling in Surface Water Pollution Estimation. *Anal. Bioanal. Chem.*, 390(5), 2008, 1283-1292.



37. I. Diadovski, M. Atanassova, **V. Simeonov**. Assessment of Strouma River Water Quality using Correlation Analysis. *J. Balk. Ecol.*, **10 (4)**, 2007, 421-424.
38. B. B. Koleva, T. M. Kolev, **V. Simeonov**, T. Spassov, M. Spiteller. Linearly polarized IR-spectroscopy of partially oriented solids as a colloid suspension in nematic host - a tool for spectroscopic and structural elucidation of the embedded chemicals. *J. Inclus. Phen. Macrocyc. Chem.*, 2008, (in press)
39. P. Simeonova, V. Simeonov. Statistical Data Pretreatment and Scaling to Assist the Classification of Data from Moss Analysis. Case Study: Urban Environment of City of Gdansk, Poland. *Ann. Univ. Sof., Fac. Chem.*, **100**, 2007, 137-171.