Curriculum vitae Europass

Personal information

Name	**DIACU Elena**
Address	University Politehnica of Bucharest, Faculty of Applied Chemistry and Material Sciences, 1-7 Gh. Polizu, , code 011061 Bucharest
Telephone	+214023888
E-mail	elena_diacu@yahoo.co.uk
Nationality	Romanian
Sex	Feminine

Professional experience

Period	2019-present Emeritus Professor
	1998-2019
Function or position	Professor at Analytical Chemistry and Environmental Engineering Department, Faculty of Applied Chemistry and Material Sciences
Main activities and responsibilities	Education, research
Employer's name and address	Politehnica University of Bucharest
Period	1992-1998
Function or position	Associate Professor at Analytical Chemistry and Environmental Engineering Department, Faculty of Applied Chemistry and Material Sciences
Main activities and responsibilities	Education, research
Employer's name and address	Politehnica University of Bucharest
Period	1990-1992
Function or position	Lecturer at Analytical Chemistry and Environmental Engineering Department, Faculty of Applied Chemistry and Material Sciences
Main activities and responsibilities	Education, research
Employer's name and address	Politehnica University of Bucharest
Period	1980 - 1990
Function or position	Assistant professor at Analytical Chemistry and Instrumental Analysis Department, Faculty of Chemical Technology,
Main activities and responsabilities	Education, research
	Polytechnic Institute of Bucharest
Period	1975-1980
Function or position	Chemist analyst, Head of Toxicological department
Main activities and responsabilities	Research in food control, food control by advanced analytical methods
Employer's name and address	Institute for Hygiene and Veterinary Public Health, 5 Campul Mosilor, 021201, Bucharest, Romania

Education and Training

Period	1975-1978

Qualification / obtained diploma	English certificate
Main disciplines	English
Name and type of the education institution	Popular University of Bucharest
Level in national or international classification	ISCED 6
Period	1981-1987
Qualification / obtained diploma	Doctor in Chemistry (PhD)
Main disciplines	Analytical Chemistry, Instrumental Analysis, Advances Analytical Techniques (Spectral, voltammetric, chromatographic methods, coupled analytical methods).
Name and type of the education institution	Industrial Chemistry Faculty, Polytechnic Institute of Bucharest
Level in national or international classification	ISCED 6
Period	1970-1975
Qualification / obtained diploma	Chemist, Specialization in Analytical chemistry
Main disciplines	Analytical Chemistry, Instrumental Analysis, Advances Analytical Techniques (Spectral, voltammetric, chromatographic methods, coupled analytical methods).
Name and type of the education institution	Faculty of Chemistry, University of Bucharest
Level in national or international classification	ISCED 5
Period	2008
Qualification / obtained diploma	Auditor / Certificate in Quality Systems Audit of labs
Main disciplines	Standard ISO / IEC 17025: 1999 for the accreditation of testing laboratories / validation of analytical methods; quality management in laboratories
Name and type of the education institution	Romania ASRO Standards Association / Institution State
Period	2007-2008
Qualification / obtained diploma	Internal Auditor / Certificate in Higher Education Quality Management System
Main disciplines	Higher Education Quality Management in accordance with ISO 9001/2001; definitions; concepts; referential. Documents of Quality Management System in Higher Education
Name and type of the education institution	Romania ASRO Standards Association / Institution State

Known foreign languages **English, French, Russian**

Autoevaluation

	Understanding				**Speaking**				**Writing**	
European level (*)	Listening		Reading		Participation at conversations		Oral speech		Written expression	
English	C2	Skilled user	C2	Skilled user	C2	Skilled user	C2	Skilled user	C2	Skilled user
French	C2	Skilled user	C2	Skilled user	C2	Skilled user	C2	Skilled user	C2	Skilled user
Russian	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) Reference Common European Framework Level for Foreign Languages

Organisatoric competencies and aptitudes

- 1976 -1980 head of toxicological laboratory –heavy metals;
- 1984 -1987, head of student laboratories in Analytical Chemistry, Instrumental Analysis;
- 2007 - member of the organizing committee of international conference RICCCE XV, Sinaia;
- 2008 - member of the organizing committee of the National Conference of Chemistry "School education. Present and future ", Bucharest;
-2010 - Co-chairman, symposium "Nouveaux Matériaux pour la reconnaissance des Mineraux Electrochimique des Espèces et Biologique", "Nomares", Bucharest;
- 2012 - Co-chairman of the 3rd Symposium on Electrochemistry REGIONAL: SOUTH-EAST EUROPE, RSE-SEE3, Bucharest;
- 2012 - Co-Chairman, Symposium "Nouveaux Matériaux pour la reconnaissance des Mineraux Electrochimique des Espèces et Biologique", "Nomares» Bucharest;
- 2014 - member of the organizing committee 4rd REGIONAL SYMPOSIUM ON SOUTH-EAST EUROPE Electrochemistry, RSE-SEE4-Ljubljana;
-2014 - Co-chairman, symposium "Nouveaux Matériaux pour la reconnaissance des Mineraux Electrochimique des Espèces et Biologique", "Nomares", Caciulata, Valcea;
- 2016 - Co-Chairman, Symposium "Nouveaux Matériaux pour la reconnaissance des Mineraux Electrochimique des Espèces et Biologique", "Nomares» Iasi;
- Project Director of 17 contracts as respondent;

Competencies and technical aptitudes

- Courses and laboratory works in analytical chemistry and instrumental analysis, environmental quality control, food safety and quality control- in Romanian and English languages;
- Oral and poster presentation in national and international scientific congresses, conferences, symposia, workshops;
- Scientific coordination of student research in Scientific Circle of Analytical Chemistry and of Applied Chemistry, license and master level;
- Scientific coordinating of PhD students from 2004 to present, 10 doctoral theses completed;
- Scientific reviewer, member of committees for the evaluation of doctoral thesis in chemistry and chemical engineering.
- Member of editorial board of *Revista de Chimie* (Bucharest);
- Member of Editorial College of Bulletin of Romanian Chemical Society
- Scientific reviewer for national and international journals in chemistry, ISI indexed (Food Analytical Methods, Revista de chimie, Revue Roumaine de Chimie, Journal of Inclusion Phenomena and Macrocyclic Chemistry, Supramolecular Chemistry, International Journal of Environmental Analytical Chemistry, Buletinul Ştiinţific al UPB-Seria B, Proceedings of the Romanian Academy);
- Expert evaluator for national programs "Horizon 2000", "Relansin" "Matnantech" CEEX., Partnerships, PED
- Expert evaluator for international programs, NEST Adventure, FP6, FP7 Marie Curie Actions, BNSF, EURAMET.
- Chairman or member of the Examination Committee of Experts in Food Control from the Institute for Hygiene and Veterinary Public Health, Bucharest;
- Chairman of National Olympiad Junior Sciences in 2007, 2008, 2009, 2010.

Research domains:
- analytical chemistry, spectral, electrochemical and chromatographic methods applied in environmental protection (water and soil analysis), in food control, electrochemical chemistry and catalytic mechanism process, flow injection analysis (FIA), speciation of heavy metals in environmental samples, environmental chemistry and monitoring, supramolecular chemistry (recognition of biological substrates) and separation through liquid membrane, chemically modified electrodes applied in water quality monitoring, molecular recognition (cations and anions) in solutions and using modified electrodes

Computer usage competencies and aptitudes

PC usage, Word, Excell, Power Point

Published books (selected):
1. Elena Diacu, "Analytical Chemistry-Fundamentals", Editura Printech ISBN 973-652-722-0 (2003).
2. Elena Diacu şi L. Mutihac, "*Analytical Applications of Macrocyclic receptors*", Ed. Printech, ISBN 973-718-450-4, 2006.
3. D. Bogdan şi Elena Diacu, "*Problems in Chemistry*" ,Ed. Mistral INFO MEDIA, ISBN 978-973-88418-5-7, 2007.
4. A. D. Stancu, M. M. Ceausescu, L. Kim, Elena Diacu, L. Mutihac, "*Cyclodextrins Involved in Separation of Amino Acids by Liquid Membranes*", European Membrane Society Summer Scool, Bucharest, 2010, Vol. Trends in membranology, Ed. Printec, 77-80, ISBN 978-606-521-525-2.
5. Elena Diacu, "*Encyclopedia of Food and Health* (FOHE)", vol. 2; Oxford: Academic Press **2016**, "Colors: Properties and Determination of Synthetic Pigments**".**

Driving Licence B Category

Additional informations

Member of professional associations: *Romanian Chemical Society*, Societatea Națională de Știința și Ingineria Mediului din Romania
Nominated at "Who is who in the world" and **"Who is who în Romania";**
Awards: Best Poster Award: Conferinţa Internaţionala Chimia 2009, "New Trends in Applied Chemistry", Constanta 2009
- Diploma of Honour for Contribution to promoting chemistry in SChR 2015
– Gheorghe Spacu medal of the Society of Chemistry from Romania in 2015 for the activity in chemistry.

Appendices
Appendix I – Selected Papers
Published papers in ISI indexed journals

1. L. Kim, A-D. Stancu, Elena Diacu, H-Ju¨rgen Buschmann, L. Mutihac, "*Extraction and transport behaviour of aromatic amino acids by modified cyclodextrin",* Supramolecular Chemistry, 21, 1-2, 131–134, **2009**.

2. Elena Diacu, Cornelia Petronela Ene, "*Simultaneous determination of Tartrazine and Sunset Yellow in Soft Drinks by Lliquid Chromatography*", Revista de Chimie, 60, 8, 745-749, **2009**.

3. G. O. Buica, I. Maior, E.M. Ungureanu, D. I. Vaireanu, Elena Diacu, C. Bucher, E. Saint-Aman, "*Electrochemical Impedance Characterization of poly (pyrole-EDTA like) Modified Electrodes"*, Revista de Chimie, 60, 11, 1205-1209, **2009**.

4. Florentina Dumitrache, Elena Diacu, *"Study on the Seasonal Variation of Nitrogen Nutrients Content from Ialomita River Hydrographic Basin"*, Revista de Chimie, 61, 3, 328-332, **2010**.

5. Elena Diacu, C.P. Ene, *"Study of Analytical Parameters of the HPLC Method for Tartrazine and Sunset Yellow Analysis in Soft Drinks",* Revista de Chimie, 61, 12, 1177-1182, **2010**.

6. Elena Diacu, L. Mutihac, E. Ruse, M.M. Ceausescu, *"Solvent extraction of dopamine by heptakis (2,3,6-tri-O-acetyl)-bcyclodextrin",* J. Incl. Phenom. Macrocycl. Chem., 71, 3-4, 339-342, **2011**.

7. Elena Diacu, E.-M.Ungureanu, C.P.Ene, A.A.Ivanov, **"***Voltammetric Studies for Detection and Degradation Assessment of some Synthetic Food Dyestuffs. I. Tartrazine - E 102",* Revista de Chimie, (Bucharest), 62, 11, 1085-1089, **2011**.

8. Elena Diacu, E.-M.Ungureanu, M.M.Jurcovan, C.P.Ene, A.A.Ivanov **"***Voltammetric Studies for Detection and Degradation Assessment of some Synthetic Food Dyestuffs. II. Sunset Yellow - E-110*", Revista de Chimie (Bucharest), 63, 6, p. 580-583, **2012**.

9. Elena Barsan, Elena Diacu, *"Copper Speciation Assessment in Aquatic Ecosystem Affected by Historical Mining Activities*", Revista de Chimie (Bucharest), 63, 8, 759-763, **2012**.

10. Bumbac Costel, Elena Diacu, *"Coupled Chemical and Biological Treatment of Oil Contaminated Soils***",** Revista de Chimimie (Bucharest), 63, 11, p.1167-1171, **2012**.

11**.** Petronela-Bianca Pavel, Elena Diacu, Constantin Horia Barbu, *"Microwave-Assisted Digestion Procedures for Total Lead and Cadmium Content Determination in Copşa Micã Soils"*, Revista de Chimie (Bucharest), 64, 1, pp.22-26, **2013**.

12. V.-M. Radu, Elena Diacu, A. Varduca**, "***Development of Procedures for Hydrochemical Monitoring Data Integration for the Danube River related to the Hydrological Conditions* **"***Dezvoltarea Procedurilor de Integrare a Datelor de Monitorizare Hidraulica cu cele Legate de Conditiile Hidrologice pentru Fluviul Dunarea",* Revista de Chimie, (Bucharest), 64, 3, pp.242-245, **2013.**

13. Mara Nicoleta BADEA, Elena DIACU, Monica Violeta RADU, **"***Influence of Antibiotics on Copper Uptake by Plants*", Revista de Chimie,. (Bucharest), 64, 7, pp.684-687, **2013**.

14. Radu, V. M.; Ionescu, P.; Deak, G. Y., Ivanov, AA.; Elena Diacu, "*Multivariate Statistical Analysis for Quality Assesment of Aquatic Ecosystem on the Lower Danube*", *JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY*15, 2, pp.412-424, **2014**.

15. Pavel, Petronela-Bianca, Puschenreiter, Markus, Wenzel, Walter W., Elena Diacu, C.H. Barbu, *"Aided phytostabilization using Miscanthus sinensis x giganteus on heavy metal-contaminated soils*, SCIENCE OF THE TOTAL ENVIRONMENT, 479 ,125-131, 1, **2014.**

16. Maria Madalina Jurcovan, Elena Diacu, *"Development of a Reversed-Phase High Performance Liquid Chromatographic Method for Simultaneous Determination of Allura Red AC and Ponceau 4r in Soft Drinks",* Revista de Chimie (Bucharest), 65, 2, pp.137-141, **2014**.

17. P.-B. Pavel, Elena Diacu, C.H. Barbu, *Long-term effects on the Fractionation and Mobility of Heavy Metals in a Polluted Soil Treated with Bauxite Residue,* Revista de Chimie, (Bucharest), 66, 1, pp. 13-16, **2014**.

18. Tociu, Carmen; Diacu, Elena; Maria, Cristina, "*Minimization of Chemical Risk by using Recovered Aluminium from Metallurgical Slag as Coagulant in Wastewater Treatment*", *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*, 13, 2, 429-434, **2014.**

19. L. Mutihac, I. V. Enache, Elena Diacu, R.-C. Mutihac, J. Vicens, "*Anion influence on extraction and transport of amino acid methyl esters by functionalised calix[4]arene",* Supramolecular Chemistry26, 7-8, pp. 521-525, **2014**.

20. Ionescu Petra, Radu, Violeta-Monica, Gyorgy Deak, Elena Diacu *"Distribution, Partition and Fluxes of Trace Heavy Metals in the Lower Danube River"*, REVISTA DE CHIMIE 65, 9, pp: 1092-1095, **2014.**

21. Petronela-Bianca Pavel, Elena;Diacu, Constantin Horia Barbu, *"Long-term Effects on the Fractionation and Mobility of Heavy Metals in a Polluted Soil Treated with Bauxite Residues",* REVISTA DE CHIMIE 66, 1, pp: 13-16, **2015.**

22. Holban, Elena, Deak, Gyorgy; Daescu, Vasilica; Diacu Elena; Daescu, Andreea I; Tanase, GS; Marinescu, P; Sirbu, C; Paceagiu, J , *"Ways to Reduce CO_2 Emissions and Energetic Consumption at Clinker Producing under*

Romanian Specific Conditions", JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, 16, 2, pp. 479-488, **2015.**

23. Claudia Maria Gutu, Octavian Tudorel Olaru, Carmen Nicoleta Purdel , Mihaela Ilie, Elena Diacu, "Phytotoxicity of Inorganic Arsenic Assessed by Triticum Test", REVISTA DE CHIMIE 66, 3, pp: 333-336, **2015.**

24. Violeta-Monica Radu, Elena Diacu, Petra Ionescu, Deák György, "*Spatio-Temporal Characterization of Nutrient Pollution in Lower Danube Area*", REVISTA DE CHIMIE 66, 5, pp: 601-606, **2015.**

25. Elena Diacu, Eleonora-Mihaela Ungureanu, Anton Alexandru Ivanov, Maria Madalina Jurcovan, "Voltammetric Techniques for Determination of Allura Red AC Synthetic Pigment in Beverages", REVISTA DE CHIMIE 66, 6, pp: 769-773, **2015.**

26. Petra Ionescu, Violeta-Monica Radu, D.Gyorgy, A.A.Ivanov, Elena Diacu, "*Lower Danube Water Quality Assessment using Heavy Metals Indexes*', REVISTA DE CHIMIE 66, 8, pp.1088-1093, **2015.**

27. Ana-Maria Resetar-Deac, Elena Diacu, "*Assessment of Aquatic Environment Contamination with Heavy Metals from Abandoned Mines of Northwestern Romania",* REVISTA DE CHIMIE, 66, 9, pp.1535-1539, **2015**.

28. Petra Ionescu, Violeta-Monica Radu, Elena Diacu, *"Sediments as Indicators of Heavy Metal Contamination in the Lower Danube River"*, REVISTA DE CHIMIE, 66, 11, pp.1725-1727, **2015.**

29. Violeta Monica Radu, Alexandru Anton Ivanov, Petra Ionescu, Deak Gyorgy, Elena Diacu, "Overall Assessment of Water Quality on Lower Danube River Using Multi-parametric Quality Index", Revista de Chimie, 67, 3, pp.391-395, **2016**.

30. Alexandru Anton Ivanov, Elena Diacu, Gyorgy Deak, "FTIR Method for PRAESTOL™ A3040L Analysis in Surface Waters", Revista de Chimie, 67, 7, pp. 1029-1033, **2016**.

31. Petra Ionescu, Elena Diacu, Violeta Monica Radu, Gyorgy Deak, Marian Tudor, "Detection of Estrogens from Aquatic Environments by Gas Chromatographic Method", Revista de Chimie, 67, 10, 1895-1898, **2016.**

32. Elena Diacu, George-Octavian Buica, Irinela Chilibon, Liviu Birzan, Georgiana-Luiza Arnold, Eleonora-Mihaela Ungureanu," Chemically Modified Electrodes Based on 5-(Azulen-1-yl)methylene)-2-thioxothiazolidin-4-one", JOURNAL OF SOLUTION CHEMISTRY, 45, 11, 1588-1597, **2016**.

33. Ana Maria Anghel, Elena Diacu, Mihaela Ilie, " Statistical Analysis of Heavy Metals Concentration in Water and Sediments in the Lower Part of the Danube River - Romanian Section", REVISTA DE CHIMIE, 67, 11, 2151-2155, **2016**.

34. Petra Ionescu, Gyorgy Deak, Elena Diacu, Violeta Monica Radu, "Assessment of Heavy Metals Levels in Water, Sediments and Fish from Plumbuita Lake, Romania", REVISTA DE CHIMIE, 67,11, 2148-2150, **2016**.

35. Lazar Ioana-Georgiana; Elena Diacu; Ungureanu, Eleonora-Mihaela; Buica, George-Octavian;Birzan, Liviu; Arnold, Georgiana-Luiza, "Modified Electrodes Based on 2,6-Bis((E)-2-(Thiophen-2-Yl) Vinyl)-4-(4,6,8-Trimethylazulen-1-Yl) Pyridine for Heavy Metals Sensing", University Politehnica of Bucharest SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 79, 3, 23-36, **2017**.

36. Radu Violeta-Monica; Elena DIACU; Ionescu, Petra; Ivanov, Alexandru Anton, "APPLICATION OF MULTIVARIATE STATISTICAL TECHNIQUES TO ASSESS WATER QUALITY OF THE LOWER DANUBE", UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 79, 3, 3-12, **2017.**

37. Holban E.; Elena DIACU; Matei, M.; Ghita, G.; Raischi, M.; Fronescu, S.; Daescu, A.; Gheorghe, I. P.; Ilie, M.; Szep, R.; Daescu, V.;Dumitru, D. ;Tociu, C.; Popescu, I., "lASSESSMENT OF ATMOSPHERIC POLLUTION IN A CEMENT FACTORY AREA SITUATED IN THE EASTERN PART OF ROMANIA", JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, 18, 3, 819-830, **2017.**

38. Anghel Ana-Maria; Elena DIACU, Ilie, Mihaela; Cimpoeru, Cristina; Marinescu, Florica; Marcu, Ecaterina; Tociu, Carmen, "Statistical correlations between physical and chemical indicators in order to assess the water quality of artificial lakes in south Romania, Bucharest-Ilfov area", BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, 7, 3, 2048-2052, **2017.**

39. Lazar Ioana Georgiana; Elena DIACU; Buica, George Octavian; Ungureanu, Eleonora-Mihaela; Arnold, Georgiana Luiza); Birzan, Birzan, Liviu, "The Heavy Metals Sensing Based on 2,6-Bis(-2-(Thiophen-3-yl)Vinyl)-4-(4,6,8-Trimethylazulen-1-yl) Pyrylium Modified Electrodes", REVISTA DE CHIMIE, 68, 11, 2509-2513, **2017.**

40. Marcu, Ecaterina; Deak, Gyorgy; Ciobotaru, Irina Elena; Ciobotaru; Ivanov, Ivanov, Alexandru Anton; Ionescu, Petra; Tociu, Carmen; Elena DIACU, *"The Assessment of Content and Dynamics of Nutrients in Water and Sediments from the Plumbuita Lake, Bucharest I. Study on Phosphorous Content and Distribution*", REVISTA DE CHIMIE, 68, 11, 2492-2494, **2017.**

41. Radu Violeta Monica; Elena DIACU; Moncea, Mihaela Andreea; Dumitru, Florina Diana; Panait, Ana Maria; Ionescu, Petra, "Numerical Modelling of Pollutant Dispersion in the Lower Danube River", REVISTA DE CHIMIE, 68, 11, 2477-2481, **2017.**

42. Tociu Carmen, Zaharia, Tania; Elena DIACU, Marinescu, Florica; Ilie, Mihaela, "*Technological Solution for the Treatment of Wastewater Resulting from Autochthonous Aquacultures in Order to Protect the Marine Water Quality*", REVISTA DE CHIMIE, 68,12,, 2752-2755**, 2017.**

43. Marcu, Ecaterina; Deak, Gyorgy; Ciobotaru, Irina Elena; Ivanov Alexandru Anton; Ionescu, Petra; Tociu, Carmen; Elena DIACU, "*The Assessment of Content and Dynamics of Nutrients in Water and Sediments from the Plumbuita Lake, Bucharest II. Study on nitrogen content and distribution*", REVISTA DE CHIMIE, 68, 12, 2744-2746, **2017**.

44. Radu Violeta Monica; Ionescu Petra; Elena DIACU; Ivanov, Alexandru Anton, "Removal of Heavy Metals from Aquatic Environments Using Water Hyacinth and Water Lettuce", REVISTA DE CHIMIE, 68, 12, 2765-2767, **2017.**

45. Vasile Gabriela Geanina, Arnold Georgiana Luiza, Buica George Octavian, Elena DIACU, Ungureanu Eleonora Mihaela, Dinu Cristina, *Stripping Voltammetry on a new Modified Glassy Carbon Electrode for Lead Content Determination in Soft Water*, Revista de chimie, 69, 1, pp.21-26, **2018.**

46. Stefaniu Amalia, Pop Maria-Daniela, Arnold Georgiana-Luiza, Birzan Liviu, Pintilie Lucia, Elena DIACU, Ungureanu, Eleonora-Mihaela, "DFT calculations and electrochemical studies on azulene ligands for heavy metal ions detection using chemically modified electrodes", JOURNAL OF ELECTROCHEMICAL SCIENCE AND ENGINEERING, 8,73-85**, 2018.**

47. Lazar Ioana Georgiana, Elena DIACU, Vasile, Gabriela Geanina, Ungureanu Eleonora Mihaela, Ivanov Alexandru Anton, *Study of Analytical Parameters of a Differential Pulse Voltammetric Method using Chemically Modified Electrodes for Lead Analysis in Water*, Revista de chimie, 69, 9, pp.2311-2314, **2018.**

48. Stefaniu Amalia, M.-D. Pop, Arnold Georgiana Luiza, Liviu Birzan, L. Pintilie, Elena Diacu, Eleonora-Mihaela Ungureanu, *DFT calculations and electrochemical studies on azulene ligands for heavy metal ions detection using chemically modified electrode*s, Journal of Electrochemical Science and Engineering, Volumul 8, 1, pp 73-85, Editor Međunarodna udruga fizikalnih emičara, **2018**/3/3

49. Radu Violeta Monica , Ivanov Alexandru Anton, Ionescu Petra, Deak, Gyorgy, Elena DIACU, Ciobotaru, Irina-Elena, Ghita, Gina, Marcu, Ecaterina, *Multivariate Statistical Characterisation of Soil Quality in the Lower Danube River Riparian Areas,* REVISTA DE CHIMIE, 70, 7, 2392-2397, **2019.**

50. Petra Ionescu, Violeta Monica Radu, Gyorgy Deak, Elena DIACU, Ecaterina Marcu, Irina-Elena Ciubotaru, "*Quality Assessment of Some Freshwater Resources Located in Bucharest and Surrounding Areas. I. Water Quality Assessment of Herastrau, Pantelimon and Mogosoaia Lakes"*, Revista de chimie, 70, 8, pp.2889-2896, **2019**

51. Petra Ionescu, Alexandru Anton Ivanov, Violeta Monica Radu, Gyorgy Deak, Elena DIACU, Ecaterina Marcu, Ana-Maria Anghel, *"Quality Assessment of Some Freshwater Resources Located in Bucharest and Surrounding Areas. II. Water quality assessment of Arges and Dambovita rivers",* Revista de chimie, 70, 10, pp. 3638-3643 **2019. https://www.revistadechimie.ro/Articles.asp?ID=7612 https://doi.org/10.37358/RC.19.10.7612**

52. Violeta Monica Radu, Petra Ionescu, Gyorgy Deak, Alexandru Anton Ivanov, Elena DIACU, Ana-Maria Anghel, "*Quality Assessment of Some Freshwater Resources Located in Bucharest and Surrounding Areas. III. Case Study: Trophic Status Assessment of Mogosoaia, Herastrau and Pantelimon Lakes*", Revista de chimie, 70, 11, pp. 3778-3782 **2019. https://doi.org/10.37358/RC.70.19.11.7646**

53. Violeta Monica Radu, Petra Ionescu, Gyorgy Deak, Alexandru Anton Ivanov, Elena DIACU, Stefan Zamfir, Maria-Iuliana Marcus,
"Overall assessment of surface water quality in the Lower Danube River", ENVIRONMENTAL MONITORING AND ASSESSMENT, 192, 2, pp. 192:135, **2020**.https://doi.org/10.1007/s10661-020-8086-8.

54. Violeta Monica Radu, Petra Ionescu, Elena DIACU, Gyorgy Deak, Alexandru Anton Ivanov, "*Assessing and Spatio-Temporal Variations of Potentially Toxic Elements in the Sediments from Lower Danube River in 2011-2017 Period",* Revista de chimie, 71, 3, pp. 126-135, **2020**.

55. Petra Ionescu, Violeta-Monica Radu, Gyorgy Deak, Elena Diacu, Alexandru Anton Ivanov, Irina-Elena Ciobotaru, Ecaterina Marcu, "*Assessment of Potential Toxic Elements in Muscle Tissues of Different Fish Species from Colentina, Dambovita and Arges Rivers, Romania",* Revista de Chimie, 71, 3, 19-28, **2020** *https://doi.org/10.37358/RC.20.3.7969*

56. Violeta Monica Radu, Petra Ionescu, Gyorgy Deak, , Elena DIACU, Irina-Elena Ciubotaru, Ecaterina Marcu, Mariana Pipirigeanu,
"Statistical Distribution and Spatio-Temporal Variation f Nutrients in Lower Danube River Waters Between km 375 - km 175 in Relation to Hydrological Regime", Revista de chimie, 71, 4, pp.71-80, **2020**. https://doi.org/10.37358/Rev. Chim.1949

57. Elena Diacu, Adinuta Paun, Veronica Anastasoaie, Georgiana-Luiza Arnold-Tatu, Liviu Birzan, Eleonora-Mihaela Ungureanu, "*Electroactive properties of a new azulene thioxo-imidazolidin-4-one ligand for modified electrodes*", Journal of Electrochemical Science and Engineering, 10, 2, pp. 209-217, **2020.** http://dx.doi.org/10.5599/jese.727

58. Veronica Anastasoaie, Elena Diacu, Eleonora-Mihaela Ungureanu, Magdalena Rodica Bujduveanu, Liviu Birzan, Mihaela Cristea, *"New Chemically Modified Electrodes Based on Crown Ether-Azulenes for Heavy Metal Analysis*. Univ. Politeh. Buchar. Bull. Ser. B-Chem. Mater. Sci. 83, 2, pp. 15-26, **2021**.

59. Adina-Maria Paun, O.-T. Matica, Veronica Anastasoaie, Laura-Bianca Enache, Elena Diacu, Eleonora-Mihaela Ungureanu, "R*ecognition of Heavy Metal Ions by Using E-5-((5-Isopropyl-3,8-Dimethylazulen-1-yl) Dyazenyl)-1H-Tetrazole Modified Electrode"*, Symmetry, 13, 644, **2021.** https://doi.org/10.3390/sym13040644 L2646 (TA6)

60. Vasilache Nicoleta, Diacu Elena, Modrogan Cristina, Lucaciu Irina, Vasile, Gabriela Geanina, Paun Iuliana Claudia, Iancu Vasile, "*Forecasting Methods for Assessment of the Biodegradability of Wastewater from Organic Separators",* Univ. Politeh. Buchar. Bull. Ser. B-Chem. Mater. Sci. 83, 4, pp.95-108, **2021.**

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