

PERSONAL INFORMATION

Ioana – Daniela DULAMA



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Sex Female | Date of birth 15/10/1983 | Nationality Romanian

WORK EXPERIENCE

2020 – present

Scientific researcher III

Valahia University of Targoviste, Targoviste (Romania) - Institute of Multidisciplinary Research for Science and Technology (www.valahia.ro; www.icstm.ro)

- Samples collection and samples preparation
- Materials characterization using different equipments, such as: Scanning Electron Microscope (SEM), Inductively Coupled Plasma Mass Spectrometer (ICP-MS), macro elemental analyzer (MultiEA4000), mercury analyzer, calorimeter etc.
- Evaluation of collected data
- Participation in research projects
- Participation in dissemination activities: scientific publications, presentations of research results at national and international conferences and seminars,
- Organization of conferences and seminars
- Coordinating Master / PhD students in research activity

Business or sector Scientific Research

2014 – 2020

Scientific researcher

Valahia University of Targoviste, Targoviste (Romania) - Institute of Multidisciplinary Research for Science and Technology (www.valahia.ro; www.icstm.ro)

- Samples collection and samples preparation
- Materials characterization using different equipments, such as: Scanning Electron Microscope (SEM), Inductively Coupled Plasma Mass Spectrometer (ICP-MS), macro elemental analyzer (MultiEA4000), mercury analyzer, calorimeter etc.
- Evaluation of collected data
- Participation in research projects
- Participation in dissemination activities: scientific publications, presentations of research results at national and international conferences and seminars,
- Organization of conferences and seminars

Business or sector Scientific Research

2017 – present

Conformity evaluator

Romanian Movement for Quality, Craiova (Romania) (www.mrco.ro)

- Assessment of toys conformity on the metals migration
- Preparation and analysis of samples according to European standards
- Preparation of evaluation / non-compliance reports, completing questionnaires

Business or sector Service Business

August – November 2016

Scientific researcher III

Academy of Romanian Scientists, Bucharest (Romania) (www.aosr.ro)

- Fundamental and applied scientific research activity
- Testing, experimentation and approval of the results on the research projects
- Writing scientific and financial reports
- Participation in dissemination activities: scientific publications, presentations of research results at national and international conferences and seminars

Business or sector Scientific Research

2009 – 2014 Scientific Research Assistant

Valahia University of Targoviste, Targoviste (Romania) - Institute of Multidisciplinary Research for Science and Technology (www.valahia.ro; www.icstm.ro)

- Samples collection and samples preparation
- Materials characterization using different equipments, such as: Quartz Crystal Microbalance (QCM), Atomic Absorption Spectrometer (AAS), Energy Dispersive X-ray Fluorescence spectrometer (EDXRF)
- Evaluation of collected data
- Participation in research projects
- Participation in dissemination activities: scientific publications, presentations of research results at national and international conferences and seminars,
- Organization of conferences and seminars

Business or sector Scientific Research

EDUCATION AND TRAINING

2008 – 2012 PhD in Physics

EQF 8

University of Bucharest, Faculty of Physics, Specialization: Atomic and Nuclear Physics, Elementary Particles, Astrophysics and Applications, Bucharest (Romania)

Thesis title: "Analytical studies for optimization of high sensibility and precision analysis methods based on electromagnetic radiation and particle interaction with substance, applied in the study of environmental pollutants"

- Atomic and Nuclear Physics, Elementary Particles Physics, Astrophysics etc.

2009 – 2011 Master's degree

EQF 7

Valahia University of Targoviste, Faculty of Environmental Engineering and Biotechnologies, Specialization: Evaluation and Control Systems of Environmental Quality, Targoviste (Romania)

Master's Thesis : "Determination of some environmental pollutants with the nano-analytical method - quartz crystal microbalance"

- Transport and Dispersion of Pollutants, Advanced Environmental Monitoring Systems, Advanced Waste Management Techniques and Methods etc.

2006 – 2007 Master's degree

EQF 7

Valahia University of Targoviste, Faculty of Science and Arts, Specialization: Physico-Chemical Methods for Life and Environmental Quality Control, Targoviste (Romania)

Master's Thesis : "Intelligent microsystems for the environmental pollution control – semiconductor sensors for toxic gases"

- Environmental Physics, Organic Pollutants, Depollution Methods (physical and chemical techniques), Validation of Analysis Methods etc.

2002 - 2006 Bachelor's degree

EQF 6

Valahia University of Targoviste, Faculty of Science and Arts, Specialization: Mathematics – Physics, Targoviste (Romania)

Bachelor's Thesis: "Excimer LASERs"

- Mechanics, Differential equations, Thermodynamics, Probabilities Theory, Optics, Mathematical Analysis etc.

2009 - 2015 **Other courses and trainings**

- Initiation / improvement / specialization program for the occupation of TRAINER, organized by SC Structural EuroTraining SRL, 2015
- Training on UV-VIS Spectrometer, EBRD Trading SRL, 02 - 06 March 2015
- Training on portable Raman Spectrometer, AMS 2000 Trading Impex SRL, 04 - 11 February 2015
- Training on Fourier Transform Infrared Spectrometer (FTIR), Russi Scientific Instruments, 09-16 January 2015
- Training on oxidation stability tester (PetroOxy), OF Systems SRL, 10-17 December 2014
- Training on Scanning Electron Microscope (SEM) coupled with Energy Dispersion Spectrometer (EDS), Wavelength Dispersion Spectrometer (WDS) and Electron Beam Lithography system (EBL), Nitech SA, 3 November - 2 December 2014
- Training on Mercury analyzer (Mercur Duo), Analytik Jena Romania, 3 - 10 November 2014
- Training on specific heat determination device (calorimeter), OF Systems SRL, December 3-10 2014
- Training on elemental analysis for the determination of carbon, sulfur and chlorine (MultiEA 4000), Analytik Jena Romania, 28 October - 3 November, 2014.
- Training on Inductive Coupled Plasma Mass Spectrometer (ICP-MS), BERD Trading SRL, 4-10 July 2014
- Training Program in the field of Quality Management in Higher Education, Spiru Haret University, 26 November 2013
- Training Program for Quality Assurance in Distance Education - ID, Spiru Haret Vocational Training Center, 20 November 2013
- Introduction to IBM SPSS Statistics and statistics, IT training.ro, 25-26 March 2011
- Innovative methods of eLearn teaching, UNESCO Chair of Rural Development - USAMV Bucharest, 18-25 March 2011
- Professional internship: Microbiology and milk quality control, University of Molise (Italy), 30 January – 13 February 2011
- Training in Scientific Authorship, Doctorate in Schools of Excellence, UEFISCSU, 29-30 October 2009

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1
Spanish	A2	A2	A2	A2	A2
French	A2	A2	A2	A2	A2

Communication skills

- Social and communicative threads
- Good capacity for integration into the community / new teams
- Team spirit.

Organisational / managerial skills

- Very serious and punctual person
- Good organizational ability due to the organization of national and international conferences
- Good coordination and managerial skills (scientific responsible of 3 research laboratories, team responsible in 7 contracts with economic agents / other universities / research institutes)

Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Other digital skills:

- good command of office suite (Microsoft Office Word, Excel, Power Point)
- good command of other software as: Surfer (software for isoconcentration maps), OriginLab Pro, IBM SPSS Statistics, PAST

Driving licence B

ADDITIONAL INFORMATION

- Books ▪ 3
- Chapters ▪ 4
- Articles in ISI journals ▪ 80 (48 with impact factor)
- Articles in IDB journals ▪ 15
- Patent applications ▪ 1
- Projects and grants ▪ 33 (25 international and 8 national projects)
- Citations ▪ 310 (Web of Science, h=14); 301 (Scopus, h=11); 327 (Google Scholar, h=12)
- Papers presented in national and international conferences ▪ >150
- Honors and awards ▪ 18
- Organizing Committees ▪ 14 (7 international and 7 national conferences)
- Editorial Committees ▪ 1 ISI journal and 5 Book of Abstracts
- Memberships ▪ Romanian Physical Society, Romanian Chemical Society, IEEE

APPENDIX

- Research activity

Research Activity

1° PhD Thesis:

- T1.** *Analytical studies for optimization of high sensibility and precision analysis methods based on electromagnetic radiation and particles interaction with substance, applied in the study of environmental pollutants*, University of Bucharest, Supervisor Prof. Ion V. POPESCU, 2012.

2° Books:

- C1.** Ion V. Popescu, Cristiana Rădulescu, Claudia Stih, Gh. Valerică Cimpoa, Ioana – Daniela Dulamă, *Analytical techniques used in the study of environmental pollution*, Ed. Bibliotheca, Târgoviște, 2011, ISBN 978-973-712-660-3, 266 pages.
- Awarded by Academy of Romanian Scientists with *Ioan Ursu Award / 2011 for Physical Sciences*, 2012.
- C2.** Gh. Valerică Cimpoa, Cristiana Rădulescu, Andreea Stancu, Ioana – Daniela Dulamă, Dorin Leț, *Quartz crystal microbalance. Nanoanalytical method. Applications*, Ed. Bibliotheca, Târgoviște, 2009, ISBN 978-973-712-388-6, 350 pages.
- C3.** Gh. Valerică Cimpoa, Ion V. Popescu, Claudia Stih, Anca Gheboianu, Ioana – Daniela Dulamă, *Encyclopedia of Materials Characterization*, Ed. Bibliotheca, Târgoviște, 2009, ISBN 978-973-712-368-8, 289 pages.

3° Chapters:

- CC1.** Claudia Stih, Cristiana Radulescu, Ioana – Daniela Dulama, Chapter *Relationships between meteorological factors and particulate matter from atmospheric air*. In book *Methods for the assessment of air pollution with particulate matter to children's health*, Editors: Ștefania Iordache, Daniela Dunea, Ed. MatrixROM, București, 2014, ISBN 978-606-25-0121-1, 16 pages.
- CC2.** Cristiana Radulescu, Claudia Stih, Ioana – Daniela Dulama, Chapter *Elemental analysis methods for particulate matter. Chemical speciation. Analytical method validation*. In book *Methods for the assessment of air pollution with particulate matter to children's health*, Editors: Ștefania Iordache, Daniela Dunea, Ed. MatrixROM, București, 2014, ISBN 978-606-25-0121-1, 70 pagini.
- CC3.** Rodica Mariana Ion, Sofia Teodorescu, Raluca Maria Stirbescu, Ioan Alin Bucurica, Ioana – Daniela Dulama, Chapter *Bio-nanotechnology as enhancer in photodynamic therapy*. In book *Biophysics for Biomedical and Environmental Sciences*, Editor: Monica Florescu, Ed. Transilvania University of Brasov Press, Brasov, 2016, ISBN: 978-606-19-0768-7, 11 pages.
- CC4.** Cristiana Radulescu, Lavinia Claudia Buruleanu, Andreea Antonia Georgescu, Ioana – Daniela Dulama, Chapter *Correlation between enzymatic and non-enzymatic antioxidants in several edible mushrooms species*. In book *Food Engineering*, Editor: Teodora Emilia Coldea, Ed. IntechOpen, 2019, ISBN: 978-1-83881-976-7, 24 pages.

4° Articles in Web of Science with impact factor (S1, S2 etc.), articles indexed in Web of Science (B1, B2 etc.), articles indexed in international databases (D1, D2 etc.)

- S1.** Aluminum Oxide Ceramic Coatings on 316L Austenitic Steel Obtained by Plasma Electrolysis Oxidation Using a Pulsed Unipolar Power Supply, Victor Aurel Andrei, Cristiana Radulescu, Viorel Malinovschi, Alexandru Marin, Elisabeta Coaca, Maria Mihalache, Cristian Nicolae Mihailescu, Ioana Daniela Dulama, Sofia Teodorescu, Ioan Alin Bucurica, *Coatings*, **10**(4), article no. 318, 2020, ISSN 2079-6412, IF = 2.330.
- S2.** Obtaining and characterization of PEO layers prepared on CP-Ti in sodium dihydrogen phosphate dihydrate acidic electrolyte solution, V. Malinovschi, A. Marin, V. Andrei, E. Coaca, C.N. Mihailescu, Cristian P. Lungu, Cristiana Radulescu, Ioana – Daniela Dulama, *Surface & Coatings Technology*, **375**, pp. 621-636, 2019, ISSN 0257-897, IF = 3.192.
- S3.** Seasonal Variability in the Composition of Particulate Matter and the Microclimate in Cultural Heritage Areas, Cristiana Radulescu, Claudia Stih, Rodica-Mariana Ion, Ioana – Daniela Dulama, Sorina-Geanina Stanescu, Raluca Maria Stirbescu, Sofia Teodorescu, Ion-Valentin Gurgu, Dorin-Dacian Let, Liviu Olteanu, Nicolae-Mihail Stirbescu, Ioan-Alin Bucurica, Radu-Lucian Olteanu, Cristina-Mihaela Nicolescu, *Atmosphere*, **10**(10), article no. 595, 2019, ISSN 2073-4433, IF = 2.046.
- S4.** Morphology and Physico-Chemical Characteristics of an Iron Fragment from Chaco Province, Ioan Alin Bucurica, Cristiana Radulescu, Aurora A. Poinescu, Ion V. Popescu, Ioana – Daniela Dulama, Cristina-Mihaela Nicolescu, Sofia Teodorescu,

- Marius Bumbac, Gica Pehoiu, Ovidiu Murescu, *Romanian Journal of Physics*, **64**(7-8), article no. 906, 2019, ISSN 1221-146X, IF = 1.460.
- S5.** Spatial distribution of groundwater quality in connection with the surrounding land use and anthropogenic activity in rural areas, Cristina L. Popa, Petre Bretcan, Cristiana Radulescu, Danut Tanislav, Simona I. Dontu, Ioana – Daniela Dulama, *Acta Montanistica Slovaca*, **24**(2), pp. 73-87, 2019, ISSN 1335-1788, IF = 0.938.
- S6.** Multielemental and Chemical Characterization of Eneolithic Petresti Painted Pottery from the Alba Iulia-Lumea Noua Archaeological Site, Romania, Alina Bintintan, Mihai Gligor, Cristiana Radulescu, Ioana – Daniela Dulama, Radu Lucian Olteanu, Sofia Teodorescu, Raluca Maria Stirbescu, Ioan Alin Bucurica, *Analytical Letters*, **52**(15), pp. 2348-2364, 2019, ISSN 0003-2719, IF = 1.248.
- S7.** Chemometric Assessment of the Interactions Between the Metal Contents, Antioxidant Activity, Total Phenolics, and Flavonoids in Mushrooms, Lavinia Claudia Buruleanu, Cristiana Radulescu, Andreea Antonia Georgescu, Ioana – Daniela Dulama, Cristina Mihaela Nicolescu, Radu Lucian Olteanu, Sorina Geanina Stanescu, *Analytical Letters*, **52**(8), pp. 1195-1214, 2019, ISSN 0003-2719, IF = 1.248.
- S8.** Health Risk Assessment Associated with Abandoned Copper and Uranium Mine Tailings, Gica Pehoiu, Cristiana Radulescu, Ovidiu Murescu, Ioana – Daniela Dulama, Ioan Alin Bucurica, Sofia Teodorescu, Raluca Maria Stirbescu, *Bulletin of Environmental Contamination and Toxicology*, **102**(4), pp. 504-510, 2019, ISSN 0007-4861, IF = 1.650.
- S9.** Ion-Substituted Carbonated Hydroxyapatite Coatings for Model Stone Samples, Rodica - Mariana Ion, Lorena Iancu, Gabriel Vasilevici, Madalina Elena Grigore, Ramona Elena Andrei, George Ionut Radu, Ramona - Marina Grigorescu, Sofia Teodorescu, Ioan Alin Bucurica, Mihaela - Lucia Ion, Anca Irina Gheboianu, Cristiana Radulescu, Ioana – Daniela Dulama, *Coatings*, **9**(4), article no. 231, 2019, ISSN 2079-6412, IF = 2.330.
- S10.** Chemometric Assessment of Spectroscopic Techniques and Antioxidant Activity for Hippophae rhamnoides L. Extracts Obtained by Different Isolation Methods, Cristiana Radulescu, Radu Lucian Olteanu, Claudia Stih, Monica Florescu, Dumitru Lazurca, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Sofia Teodorescu, *Analytical Letters*, **52**(15), pp. 2393-2415, 2019, ISSN 0003-2719, IF = 1.248.
- S11.** Archaeometric Studies of Mural Paints from Matia Loggia (Corvins' Castle), Rodica - Mariana Ion, Sorin Tincu, Nelu Ion, Ioan Alin Bucurica, Sofia Teodorescu, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Anca Irina Gheboianu, Cristiana Radulescu, Mihaela - Lucia Ion, Lorena Iancu, Ramona - Marina Grigorescu, *Romanian Reports in Physics*, **71**(3), article no. 804, 2019, ISSN 1221-1451, IF = 1.940.
- S12.** Analysis and Structural Investigations on Early Eneolithic Foeni Painted Pottery from Alba Iulia - Lumea Noua Archaeological Site, Alina Bintintan, Mihai Gligor, Ioana – Daniela Dulama, Cristiana Radulescu, Claudia Stih, Rodica Mariana Ion, Sofia Teodorescu, Raluca Maria Stirbescu, Ioan Alin Bucurica, Gica Pehoiu, *Romanian Journal of Physics*, **64**(5-6), article no. 903, 2019, ISSN 1221-146X, IF = 1.460.
- S13.** Spatial Distribution of Heavy Metals in Urban Soils, Raluca Maria Stirbescu, Cristiana Radulescu, Claudia Stih, Ioana – Daniela Dulama, Elena Daniela Chelarescu, Ioan Alin Bucurica, Gica Pehoiu, *Romanian Reports in Physics*, **71**(2), article no. 705, 2019, ISSN 1221-1451, IF = 1.940.
- S14.** Complex Investigation of Unconsolidated Sediments of Romanian Plain Salt Lake, Cristiana Radulescu, Ioan Alin Bucurica, Petre Bretcan, Elena Daniela Chelarescu, Danut Tanislav, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Sofia Teodorescu, *Romanian Journal of Physics*, **64**(3-4), article no. 809, 2019, ISSN 1221-146X, IF = 1.460.
- S15.** Complex Analytical Investigations of Old Wax - sealed Romanian Paper Documents, Nicolae Mihail Stirbescu, Rodica Mariana Ion, Adrian Radu, Sofia Teodorescu, Ioan Alin Bucurica, Raluca Maria Stirbescu, Maria Geba, Ioana – Daniela Dulama, *Revista de Chimie*, **69**(7), pp. 1608-1611, 2018, ISSN 0034-7752, IF = 1.605.
- S16.** Wood preservation with gold hydroxyapatite system, Rodica-Mariana Ion, Tebello Nyokong, Nnamdi Nwahara, Ioana-Raluca Suica-Bunghez, Lorena Iancu, Sofia Teodorescu, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Anca Gheboianu, Ramona Marina Grigorescu, *Heritage Science*, **6**, article no. 37, 2018, ISSN 2050-7445, IF = 2.165.
- S17.** Study on critical micelle concentration influence in green synthesis of silver nanoparticles assisted by Sapindus mukorossi aqueous extract, Radu Lucian Olteanu, Cristina Mihaela Nicolescu, Marius Bumbac, Ioana – Daniela Dulama, Rodica Mariana Ion, Ioana Raluca Suica Bunghez, *Revista de Chimie*, **69**(6), pp. 1339-1345, 2018, ISSN 0034-7752, IF = 1.605.
- S18.** Investigation of metallic nanoparticles adsorbed on the QCM sensor by SEM and AFM techniques, Ioan Alin Bucurica, Ion V. Popescu, Cristiana Radulescu, Gheorghe Valerica Cimpoa, Ioana – Daniela Dulama, Sofia Teodorescu, Ion Valentin Gurgu, Dorin Dacian Let, *Bulletin of Materials Science*, **41**(3), article no. 71, 2018, ISSN 0250-4707, IF = 1.264.

- S19.** Chemical composition assessment of sulphurous waters, Ovidiu Murarescu, Gica Pehoiu, Cristiana Radulescu, Ioana – Daniela Dulama, Sofia Teodorescu, Raluca Maria Stirbescu, George Muratoreanu, *Revista de Chimie*, **69**(5), pp. 1037-1040, 2018, ISSN 0034-7752, IF = 1.605.
- S20.** Response of solar radiation bioconversion on *Medicago sativa* L. silage potential, Daniela Dunea, Nicolae Dinca, Cristiana Radulescu, C. Mihaescu, Ioana – Daniela Dulama, Sofia Teodorescu, *Romanian Journal of Physics*, **63**(5-6), article no. 803, 2018, ISSN 1221-146X, IF = 1.460.
- S21.** Statistical characterization of the phytochemical characteristics of edible mushroom extracts, Lavinia Claudia Buruleanu, Cristiana Radulescu, Andreea Antonia Georgescu, Andrei Florin Danet, Radu Lucian Olteanu, Cristina Mihaela Nicolescu, Ioana – Daniela Dulama, *Analytical Letters*, **51**(7), pp. 1039-1059, 2018, ISSN 0003-2719, IF = 1.248.
- S22.** Nutritional and Food Safety Aspects Related to the Consumption of Edible Mushrooms from Dambovită County in Correlation with their Levels of Some Essential and Non-essential Metals, Andreea Antonia Georgescu, Andrei Florin Danet, Cristiana Radulescu, Claudia Stihî, Ioana – Daniela Dulama, Claudia Lavinia Buruleanu, *Revista de Chimie*, **68**(10), pp. 2402-2406, 2017, ISSN 0034-7752, IF = 1.412.
- S23.** Analysis of elements in lake sediment samples by PIXE spectrometry, Elena Daniela Chelarescu, Cristiana Radulescu, Claudia Stihî, Petre Bretcan, Danut Tanislav, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Sofia Teodorescu, Ioan Alin Bucurica, Radu Andrei, Cezar Morarescu, *Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms*, **406**(A), pp. 58-60, 2017, ISSN 0168-583X, FI=1.109.
- S24.** Investigation of Heavy Metals Content in Airborne Particles from Ploesti, Romania, Stefania Iordache, Daniel Dunea, Cristiana Radulescu, Ioana – Daniela Dulama, Radu Ianache, Mirela Predescu, *Revista de Chimie*, **68**(4), pp. 879-885, 2017, ISSN 0034-7752, IF = 1.412.
- S25.** Adsorption of Chromium (VI) from Water Solution onto Polymeric Membrane Systems, Sofia Teodorescu, Rodica Mariana Ion, Gheorghe Nechifor, Ioan Alin Bucurica, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Nicolae Mihail Stirbescu, *Revista de Chimie*, **68**(4), pp. 869-872, 2017, ISSN 0034-7752, IF = 1.412.
- S26.** ATR-FTIR and SEM-EDS Analyses of Lumea Noua Painted Pottery from Alba Iulia-Lumea Noua Neolithic Site, Alina Bintintan, Mihai Gligor, Ioana – Daniela Dulama, Sofia Teodorescu, Raluca Maria Stirbescu, Cristiana Radulescu, *Revista de Chimie*, **68**(4), pp. 847-852, 2017, ISSN 0034-7752, IF = 1.412.
- S27.** Characterization of Urban Atmospheric PM_{2.5} by ATR-FTIR, ICP-MS and SEM-EDS Techniques, Cristiana Radulescu, Claudia Stihî, Stefania Iordache, Daniel Dunea, Ioana Daniela Dulama, *Revista de Chimie*, **68**(4), pp. 805-810, 2017, ISSN 0034-7752, IF = 1.412.
- S28.** Characterization of Heavy Metals Atmospheric Deposition for Assessment of Environmental Quality in Urban and Surrounding Areas, Claudia Stihî, Cristiana Radulescu, Ioana – Daniela Dulama, Oana Catalina Bute, Ioan Alin Bucurica, *Revista de Chimie*, **68**(4), pp. 802-804, 2017, ISSN 0034-7752, IF = 1.412.
- S29.** Characterization of Phenolics in *Lavandula angustifolia*, Cristiana Radulescu, Claudia Stihî, Mihaela Ilie, Dumitru Lazurca, Romulus Gruia, Octavian tudor Olaru, Oana Catalina Bute, Ioana – Daniela Dulama, Raluca Maria Stirbescu, Sofia Teodorescu, Monica Florescu, *Analytical Letters*, **50**(17), pp. 2839-2850, 2017, ISSN 0003-2719, IF = 1.206.
- S30.** Characterization of Heavy Metal Air Pollution in Romania Using Moss Biomonitoring, Neutron Activation Analysis, and Atomic Absorption Spectrometry, Claudia Stihî, Ion V. Popescu, Marina Frontasyeva, Cristiana Radulescu, Antoaneta Ene, Otilia Culicov, Inga Zinicovscaia, Ioana – Daniela Dulama, Simona Cucu-Man, Radu Todoran, Anca Irina Gheboianu, Ioan Alin Bucurica, Iulian Bancuta, Gabriel Dima, *Analytical Letters*, **50**(17), pp. 2851-2858, 2017, ISSN 0003-2719, IF = 1.206.
- S31.** Assessment of metals level in several meat products obtained through conventional and traditional methods, Iulia Manea, Laur Manea, Cristiana Radulescu, Ioana – Daniela Dulama, Sofia Teodorescu, Raluca Maria Stirbescu, Elena Daniela Chelarescu, Ioan Alin Bucurica, *Romanian Reports in Physics*, **69**(4), art.no. 711, 2017, ISSN 1221-1451, IF = 1.582.
- S32.** Determination of heavy metal contents in surface water by Inductively Coupled Plasma - Mass Spectrometry: A case study of Ialomita River, Romania, Ioana – Daniela Dulama, Cristiana Radulescu, Elena Daniela Chelarescu, Claudia Stihî, Ioan Alin Bucurica, Sofia Teodorescu, Raluca Maria Stirbescu, Ion Valentin Gurgu, Dorin Dacian Let, Nicolae Mihail Stirbescu, *Romanian Journal of Physics*, **62**(5-6), art.no. 807, 2017, ISSN 1221-146X, IF = 1.433.
- S33.** Heavy metal contents of Brassica oleracea as bioindicators determined by XRF and AAS analytical methods, Ioana – Daniela Dulama, Elena Daniela Chelarescu, Octavian Dului, *Romanian Reports in Physics*, **68**(3), pp. 1221-1226, 2016, ISSN 1221-1451, IF = 1.582.

- S34.** PIXE Analytical Method Applied in the Study of Environmental Samples Used as Bioindicators, Elena Daniela Chelarescu, Ioana – Daniela Dulama, Anca Gheboianu, Ioan Alin Bucurica, D. Pacesila, *Romanian Journal of Physics*, **61**(7-8), pp. 1369-1379, 2016, ISSN 1221-146X, IF = 1.758.
- S35.** A Multidimensional Approach to the Influence of Wind on the Variations of Particulate Matter and Associated Heavy Metals in Ploiesti City, Romania, Daniel Dunea, Stefania Iordache, Cristiana Radulescu, Alin Pohoata, Ioana – Daniela Dulama, *Romanian Journal of Physics*, **61**(7-8), pp. 1354-1368, 2016, ISSN 1221-146X, IF = 1.758.
- S36.** Determination of Several Elements in Edible Mushrooms Using ICP-MS, Andreea Antonia Georgescu, Andrei Florin Danet, Cristiana Radulescu, Claudia Stih, Ioana – Daniela Dulama, Daniela Elena Chelarescu, *Romanian Journal of Physics*, **61**(5-6), pp. 1087-1097, 2016, ISSN 1221-146X, IF = 1.758.
- S37.** Risks assessment of heavy metals on public health associated with atmospheric exposure to PM2.5 in urban area, Cristiana Radulescu, Stefania Iordache, Daniel Dunea, Claudia Stih, Ioana – Daniela Dulama, *Romanian Journal of Physics*, **60**(7-8), pp. 1171-1182, 2015, ISSN 1221-146X, IF = 1.758.
- S38.** Assessment of heavy metals content in water and mud of several salt lakes from Romania by atomic absorption spectrometry, Cristiana Radulescu, Claudia Stih, Ioana – Daniela Dulama, Elena Daniela Chelarescu, Petre Bretcan, Dan Tanislav, *Romanian Journal of Physics*, **60**(1-2), pp. 246-256, 2015, ISSN 1221-146X, IF = 1.398.
- S39.** Behaviour of 316L stainless steel in simulated physiological fluids, Aurora Anca Poinescu, Rodica Mariana Ion, Ionica Ionita, Ioana – Daniela Dulama, Andrei Chilian, *Revista de Chimie*, **65**(11), pp. 1351-1356, 2014, ISSN 0034-7752, IF = 0.810.
- S40.** Determination of heavy metal levels in water and therapeutic mud by atomic absorption spectrometry, Cristiana Radulescu, Ioana – Daniela Dulama, Claudia Stih, Ionica Ionita, Andrei Chilian, Cezarina Necula, Elena Daniela Chelarescu, *Romanian Journal of Physics*, **59**(9-10), pp. 1057-1066, 2014, ISSN 1221-146X, IF = 0.924.
- S41.** Heavy metal accumulation and translocation in different parts of *Brassica oleracea L.*, Cristiana Radulescu, Claudia Stih, Ion V. Popescu, Ioana – Daniela Dulama, Daniela Elena Chelarescu, Andrei Chilian, *Romanian Journal of Physics*, **58**(9-10), pp. 1337-1354, 2013, ISSN 1221-146X, IF = 0.745.
- S42.** Characterization of Olt river water quality using analytical methods, Ioana – Daniela Dulama, Ion V. Popescu, Cristiana Radulescu, Claudia Stih, Alin Bucurica, Ionica Ionita, Daniela Elena Chelarescu, Ovidiu Vasile Nitescu, Raluca Stirbescu, *Romanian Reports in Physics*, **65**(4), pp. 1519-1527, 2013, ISSN 1221-1451, IF = 1.137.
- S43.** Assessment of heavy metals level in some perennial medicinal plants by flame atomic absorption spectrometry, Cristiana Radulescu, Claudia Stih, Ion V. Popescu, Ionica Ionita, Ioana – Daniela Dulama, Andrei Chilian, Oana Roxana Bancuta, Daniela Elena Chelarescu, Dorin Let, *Romanian Reports in Physics*, **65**(1), pp. 246-260, 2013, ISSN 1221-1451, IF = 1.137.
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5° Projects / grants – international (Pi1, Pi2 etc.), national (Pn1, Pn2 etc.), contracts with economic agents (Ae1, Ae2 etc.):

- Pi1.** Grant - Microstructural characterization of coating layers prepared by plasma electrolytic oxidation (PEO) in sodium dihydrogen phosphate on titanium alloys, using neutron scattering techniques (FSD - High resolution Fourier Stress Diffractometer and HRFD – High Resolution Fourier Diffractometer measurements in function at IBR-2M reactor); final experimental results processing; considerations regarding applications of structures developed on titanium alloys in biomaterials and photoelectrochemicals catalysis, Bilateral Project 04-4-1121-2015/2020, UVT-JINR Dubna, Rusia; Protocol 4755-4-2018/2020, 2019 - member.
- Pi2.** Project - Micro-structural and compositional characterization of supports and coating layers on different substrates applied in biomaterials, photoelectrochemicals catalysis and cultural heritage, Bilateral Project 04-4-1121-2015/2020, UVT-JINR Dubna, Rusia; Protocol 4755-4-2018/2020, 2019 - member.
- Pi3.** Project - Assessment of air and soil quality using biomonitoring, neutron activation analysis and related analytical techniques, Bilateral Project 03-4-1128-2017/2019, UVT-JINR Dubna, Rusia; Protocols 4616-4-2017/2019, 4618-4-17/19, 4619-4-17/19, 2019 - member.
- Pi4.** E-LAND Integrated multi-vector management system for Energy isLANDs, Horizon 2020, 2018-2022, Grant Agreement No. 824388 – WP2 responsible.
- Pi5.** Project – Assessment of air and soil quality in Romania studied by NAA and related analytical techniques, Bilateral Project 03-4-1128-2017/2019, UVT-JINR Dubna, Rusia; Protocol 4619-4-17/19, 2018 - member.
- Pi6.** Project – Assessment of industrial impact on agroecosystems and human health risk in Romania using nuclear and related analytical techniques, Bilateral Project 03-4-1128-2017/2019, 2018 – member.
- Pi7.** Project – Study of the processes of tetragonal ZrO₂ phase stabilization in coating layers prepared on Zr–2.5%Nb alloy during plasma electrolytic oxidation in sodium aluminate electrolytes, by means of FSD and HRFD measurements, Colaborare IUCN Dubna, Bilateral Project 04-4-121-2015/2020, UVT-JINR Dubna, Rusia; Protocol 4755-4-2018/2020, 2018 - member.
- Pi8.** Project – Health risk assessment associated with abandoned copper and uranium mine tailings from Banat Region, Colaborare IUCN Dubna, Bilateral Project 03-4-1128-2017/2019 UVT-JINR Dubna, Rusia; Protocol 4748-4-2018/2019, 2018 - member.
- Pi9.** Project – Nuclear and Related analytical techniques used to study sediments from the Romanian Plain salt lakes, Colaborare IUCN Dubna, Bilateral, Project 03-4-1128-2017/2019 UVT-UB-JINR Dubna, Rusia; Protocol 4607-4-2017/2019, 2018 - member.
- Pi10.** Cercetări privind impactul pesticidelor din apă și sol asupra lanțurilor alimentare [Research on the impact of pesticides in water and soil on food chains], SEE RO-NO, 2017 - member.
- Pi11.** Aspecte legate de siguranta alimentara a preparatelor tradiționale din carne și pește, din Romania și Norvegia [Aspects related to food safety the traditional meat and fish appliances, from Romania and Norway], SEE RO-NO, 2017 - member.
- Pi12.** Project – Applied research on air and soil pollution with toxic elements using nuclear and related analytical techniques, Protocol 4619-4-17/19, 2017 - member.
- Pi13.** Project – Complex investigation (Neutron Activation Analysis, Fourier Transform Infrared and Raman Spectroscopy, Inductively Coupled Plasma – Mass Spectroscopy, Scanning Electron Microscopy + Multielemental Analysis, Optical Microscopy and Image Analysis) of the unconsolidated sediments of Romanian Plain salt lakes, Protocol no. 4609-4-17/19, 2017 - member.
- Pi14.** Project – Nuclear and related analytical techniques applied for air pollution studies in Romania with heavy metals, nitrogen, and radionuclides for participation in the European Moss Survey programme in 2015-2018, Protocol 4323-4-14/16, 2016.
- Pi15.** Grant – Nuclear and related analytical techniques applied for air pollution studies in Romania with heavy metals, nitrogen, and radionuclides for participation in the European Moss Survey programme in 2015-2018, Protocol 4323-4-14/16, 2016 - member.
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- Pi18.** Towards a better protection of children against air pollution threats in the urban areas of Romania (ROKIDAIR), ctr. SEE20/2014, 2014-2017 - member.
- Pi19.** Project – Nuclear and related techniques for environmental and life sciences, Protocol 4323-4-14/16, 2014-2015 - member.
- Pi20.** Grant – Nuclear and related techniques for environmental and life sciences, Protocol 4323-4-14/16, 2014-2015 - member.
- Pi21.** Project – Nuclear and related techniques for environmental and life sciences, Protocol 4080-4-11/13, 2011-2013 - member.
- Pi22.** Grant – Nuclear and related techniques for environmental and life sciences, Protocol 4080-4-11/13, 2011-2013 - member.
- Pi23.** Project – Nuclear and related techniques for environmental and life sciences, Protocol 3869-4-08/10, 2009-2010 - member.
- Pi24.** Grant – Nuclear and related techniques for environmental and life sciences, Protocol 3869-4-08/10, 2009-2010 - member.
- Pi25.** Project – Investigation of foodstuffs, environment and nanomaterials by nuclear and related analytical techniques, Protocol 03-4-1036-01/10, 2009 - member.
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- Pn1.** Tehnologii Noi de Diagnoza si Tratament pentru Conservarea si Revitalizarea Componentelor Arheologice ale Patrimoniului Cultural National (ARHEOCONS) [New Diagnosis and Treatment Technologies for the Conservation and Revitalization of Archaeological Components from National Cultural Heritage], ctr. 51PCCDI/2018, 2018-2020 - member.
- Pn2.** Podoaba în preistoria teritoriului nord dunărean: simbol estetic sau socio-cultural? [Personal adornment in the Prehistory of the Northern Danube territory: aesthetic or socio-cultural symbol?], ctr. 128/2018, 2018-2020 - member.
- Pn3.** Instrumente de modelare a proceselor de interfata apa-sol-plante-aer pentru administrarea inteligenta si durabila a bazinelor hidrografice [Tools for modeling processes at the interface between water, soil, plants and air in order to promote the sustainable management of groundwater dependent ecosystems and their integrating river basins], ctr. 34PCCDI/2018, 2018-2020 - member.
- Pn4.** Sistem microrobotic mobil pentru manipularea/sortarea de organisme unicelulare (ROBOCELL) [Mobile microrobotic system for single-cell manipulation and sorting], ctr. 132PED/2017, 2017-2018 - member.
- Pn5.** Izolații polimerice de înaltă performanță pentru mașini electrice rotative. Tehnologie și metode de modelare (IsMach) [High performance polymeric insulations for electrical rotation machines. Technology and modeling approaches.], ctr. 262/2014 member.
- Pn6.** Dezvoltare CDI – Institut de Cercetare Științifică și Tehnologică Multidisciplinară [RDI Development – Institute of Multidisciplinary Research for Science and Technology], POSCCE–A2–O2.2.1–2009–4, ID 916, SMIS 14687, ctr. 250/2010, 2010-2015 - logistics manager.
- Pn7.** Tehnici de înaltă precizie și sensibilitate aplicate în rețele de biomonitorizare a poluării mediului cu factori poluanți din zonele de dezvoltare de sud, sud-est și centrală ale României (TIPSARMER) [High precision and sensitivity techniques applied in biomonitoring networks of environmental pollution with polluting factors in the development areas of south, south-east and central of Romania], ctr. 72-172/2008, 2010-2011 - member.
- Pn8.** Sistem de microsenzori piezoelectrice, de măsurare, analiză și control multiparametru, integrat 3D (PIEZOSENZ) [System of piezoelectric microsensors for multiparameter measuring, analysis and control, 3D integrated], ctr. 11-017/2008, 2009-2011 – volunteer, young researcher.
- Pn9.** Studiul capacității unor specii de macromicete ubicvitate pentru absorbția metalelor grele și rare în scopul utilizării acestora ca bioindicatori și bioacumulatori în biotehnologii de mediu [The study of the capacity of some species of ubiquitous macromycetes for the absorption of heavy and rare metals in order to use them as bioindicators and bio-accumulators in environmental biotechnologies], ctr. 978/2009, 2009-2011 – volunteer, young researcher.
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- Ea1.** Studies on the morphology and chemical composition of some metallic samples in order to improve the technological process. Capitalizing on the results obtained through knowledge transfer (NIMET SRL), ctr. 2723/21.05.2019 – responsible.
- Ea2.** SEM analysis (surface morphology) + EDS (chemical composition) on steel samples (ASO CROMSTEEL SA), ctr. CMC17/3292 - responsible

- Ea3.** Study on the elemental composition of some particularly fast-steel samples. Capitalizing on the results obtained through knowledge transfer (CUT Production SRL), ctr. 2062 / 10.04.2017 – responsible.
- Ea4.** Research studies on the morphology and chemical composition of some deposits from the technological process. Capitalizing on the results obtained through knowledge transfer (NIMET SRL), ctr. 5007/21.09.2016 – member.
- Ea5.** Study for the determination of the morphology and chemical composition of the defects on the surface of the stainless steel strips and of the depositions from the technological process, using the scanning electron microscope and the energy dispersion spectrometer (OTELINOX SA), ctr. 4344/18.07.2016 – responsible.
- Ea6.** Research study on increasing the quality of some benchmarks in the chromium / nickel plating process. Capitalizing on the results obtained through knowledge transfer (NIMET SRL), ctr. 3664/16.06.2016 – responsible.
- Ea7.** Physico-chemical analyzes on walnut and pistachio samples (EFES Export SA), ctr. 14/19.02.2015 – member.

6° Honors and awards:

- Aw1.** Diploma of Honor for special contributions to promote chemistry in Romania – awarded by Romanian Society of Chemistry, 2019.
- Aw2.** Best in Show Challenges - IEEE MMC (Brisbane), 2018.
- Aw3.** First place on Microassembly Challenge - IEEE MMC (Brisbane), 2018.
- Aw4.** First place on Autonomous Manipulation and Accuracy Challenge- IEEE MMC (Brisbane), 2018.
- Aw5.** First place on Autonomous Manipulation and Accuracy Challenge- IEEE MMC (Singapore), 2017.
- Aw6.** First place on Technical Innovation - International Electric & Automation Show (Bucharest), 2017.
- Aw7.** Grand Prize of CadetINOVA Exhibition (Sibiu), 2017.
- Aw8.** Companies Award – CadetINOVA Exhibition (Sibiu), 2017.
- Aw9.** Diploma for outstanding results obtained in the scientific research granted – awarded by Valahia University of Targoviste (Targoviste), 2016.
- Aw10.** Best in Show Challenges - IEEE MMC (Stockholm), 2016.
- Aw11.** First place on Mobility Challenges - IEEE MMC (Stockholm), 2016.
- Aw12.** Diploma and Gold Medal of Euroinvent (Iasi), 2016.
- Aw13.** Diploma of Excellence – awarded by Romanian Inventors Forum in CadetINOVA Exhibition (Sibiu), 2016.
- Aw14.** Honorable Mention Award – CadetINOVA Exhibition (Sibiu), 2016.
- Aw15.** Honour Diploma for the contributions to promote chemistry in Romania – awarded by Romanian Society of Chemistry, 2015.
- Aw16.** Best Poster Award to the 1st international Conference on Analytical Chemistry – Analytical Chemistry for a Better Life (Targoviste), 2012.
- Aw17.** “Ioan Ursu” Award / 2011 for Physical Sciences – awarded by Academy of Romanian Scientists, 2012.
- Aw18.** Best Poster Award to the Workshop “Challenges in food chemistry” (Constanta), 2010.

7° Organizing Committees:

- Oc1** A doua conferinta nationala de Stiinte aplicate in studiul mediului inconjurator si materialelor [2nd National Conference on Applied Sciences in Environmental and Materials Study] (28-30 April 2010, Targoviste)
- Oc2** A X-a conferinta nationala cu participare internationala Stiinta si Credinta [10th National Conference on Science and Faith] (25 November 2010, Targoviste)
- Oc3** A XI-a conferinta nationala cu participare internationala Stiinta si Credinta [11th National Conference on Science and Faith] (24-25 November 2011, Targoviste)
- Oc4** The 3rd Joint Seminar JINR-Romania on Neutron Physics for Investigation of Nuclei, Condensed Matter and Life Sciences (24-30 July 2011, Targoviste).
- Oc5** Conferința națională de chimie Editia a IV-a - Învățământul preuniversitar [4th Edition of National Conference on Chemistry – Pre-university Education] (7-9 September 2012, Targoviste)
- Oc6** 1st International Conference on Analytical Chemistry (18-21 September 2012, Targoviste)
- Oc7** Cea de a XII-a Conferință națională cu participare internațională Mărturie comună "Știință și Credință" [12th National Conference on Science and Faith] (22-23 November 2012, Targoviste)
- Oc8** 2nd International Conference on Analytical Chemistry (17-21 September 2014, Targoviste)
- Oc9** Contemporary Challenges for the Society in the Context of the Recent Economic and Social Changes (27-28 November 2015, Targoviste)
- Oc10** Conferința națională de chimie Editia a X-a - Învățământul preuniversitar [10th Edition of National Conference on Chemistry – Pre-university Education] (14-16 September 2018, Targoviste)
- Oc11** Conferința Națională Științifică a Academiei Oamenilor de Știință din România - Cercetarea științifică în serviciul dezvoltării durabile [National Scientific Conference Academy of Romanian Scientists - Scientific Research for Sustainable Development] (20-22 September 2018, Targoviste)
- Oc12** The 32nd Task Force Meeting of the UNECE ICP Vegetation (18-21 February 2019, Targoviste)
- Oc13** 3rd Edition Contemporary Challenges for the Society in the Context of the Recent Economic and Social Changes (20-22 June 2019, Targoviste)
- Oc14** The 9th International Conference of the Chemical Societies of the South-Eastern European Countries (8-11 May 2019, Targoviste)

7° Editorial Committees:

- Ec1** Managing Editor of *Journal of Science and Arts* (ISI Journal – Clarivate Analytics) (2020 – present).
- Ec2** Technical Editor of *Journal of Science and Arts* (ISI Journal – Clarivate Analytics) (2010 – 2019).
- Ec3** Editor of Book of Abstracts - 9th International Conference of the Chemical Societies of the South-Eastern European Countries (2019).
- Ec4** Technical Editor of Book of Abstracts - 32nd Task Force Meeting of the UNECE ICP Vegetation (2019).
- Ec5** Technical Editor of Book of Abstracts - 2nd International Conference on Analytical Chemistry (2014).
- Ec6** Technical Editor of Book of Abstracts - 1st International Conference on Analytical Chemistry (2012).
- Ec7** Technical Editor of Book of Abstracts - The 3rd Joint Seminar JINR-Romania on Neutron Physics for Investigation of Nuclei, Condensed Matter and Life Sciences (2011).

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