europass

Europass Curriculum Vitae



Personal information

First name / Surname	**COCÂRŢĂ, Diana, Mariana**
Nationality	Romanian
Date of birth	
Gender	Female
Web	www.dianacocarta.com
Areas of expertise	Teaching and research

Work experience

Dates	September 2018 - onwards
Occupation or position held	Associate professor Head of the Laboratory for Analysis, Control and Remediation of Contaminated Soils from the Research Centre for Advanced Materials, Products and Processes (CAMPUS) of University POLITEHNICA of Bucharest
Main activities and responsibilities	Teaching activities Research activities in the framework of national and international projects: artificial intelligence in environmental protection, risk assessment, environmental impact assessment, environmental system analysis for pollution control, environmental quality and safety, management of contaminated sites based on risk assessment, technologies for contaminated soils remediation, air quality monitoring Project management
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching activities Research activities
Dates	October 2012 - September 2018
Occupation or position held	Lecturer Head of the Laboratory for Analysis, Control and Remediation of Contaminated Soils from the Research Centre for Advanced Materials, Products and Processes (CAMPUS) of University POLITEHNICA of Bucharest
Main activities and responsibilities	Teaching activities Research activities in the framework of national and international projects: integration of artificial intelligence in environmental protection, risk assessment, environmental impact assessment, environmental system analysis for pollution control, environmental quality and safety, air quality monitoring, management of contaminated sites based on risk assessment, technologies for contaminated soils remediation Project management
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching activities Research activities

© European Union

Dates	December 2020 – onwards
Occupation or position held	Project management
Main activities and responsibilities	Project management, Responsible for the development of a new learning module entitled "Environmental risk assessment" and related practical works
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „Blended Learning through Innovative Tools for Sustainable and Safety Engineering and Social Inclusion" / SafeEngine, Program Erasmus+, Call: 2020, KA2 – Cooperation and Innovation for Good Practices, project no 2020-1-RO01-KA203-080085, project budget ≈ 263.624 €
Dates	December 2017 - onwards
Occupation or position held	Scientific Management and Long-term expert
Main activities and responsibilities	Scientific management, coordination of research activities related to valorisation of organic wastes by composting process
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Operational processes and systems for the treatment and material and energy valorization of waste*"/PROVED; ID P_40_301, SMIS code 105707, The Sectorial Operational Programme Increase of Economic Competitiveness (SOP-IEC) 2014-2020; Axis 1 - Research, Technological Development and Innovation (RDI) in Support of Economic Competitiveness and Business Development; Action 1.2.3 - Knowledge Transfer Partnerships; project budget 2.400.000 €
Dates	May - November 2019
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to the development of environmental tools for assessing the extent of exposure and effects of air pollution, research activities in the environmental engineering field
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Tools for exposure assessment of air pollution with fine particulate within urban areas*"/ SEPFINE; ctr. No 23/02.05.2019; Research Grant financed by The Academy of Romanian Scientists, project budget 10.000 €
Dates	February - July 2019
Occupation or position held	Environmental Expert
Main activities and responsibilities	Consultancy research and data collection activities in establishing the methodological approach for the preliminary evaluations; identification of pollution sources at the investigated site; collection, processing and interpretation of the collected data on pollutants' concentrations in soil and sludge; evaluation of the sludge management options and recommendation of the optimal solution.
Name and address of employer	Fichtner Environment, Turturelelor street, 11a, sector 3, Bucharest, Website: https://www.fichtner.ro/
Type of business or sector	Project title: "*Report of preliminary investigation and evaluation - Sludge drying platform from the station wastewater treatment Bacău*", Romania.
Dates	October 2018 -December 2019
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to different technologies for soil remediation (biologic and electro-kinetic remediation), research activities in the environmental engineering field
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Degradation of organic compounds from soil through coupling of electrochemical and biological remediation methods*"/ ELBIOCOM; ID 71; National Grants, (GNaC 2018 ARUT), University POLITEHNICA of Bucharest, project budget 10.000 €

Dates	October 2015 – November 2017
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to different technologies for soil remediation (thermal treatment and electro-remediation), research activities concerning integration of the artificial intelligence in environmental protection, development of a software tool for human health risk assessment from contaminated sites with petroleum products
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Optimized decision for petroleum contaminated sites management based on human health risk assessment and cost-benefit analysis/ REMPET*" - PNII-RU-TE2014-4 – 2348, contract no 354/01.10.2015, project budget 549.700 lei ≈ 122.200 €
Dates	September 2015 – August 2018
Occupation or position held	Trainer
Main activities and responsibilities	Responsible for the development of a new course Soil and Air Quality Monitoring Techniques
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „*Environmental learning innovation for more knowledge and better jobs*"/EnvyJobs, Program Erasmus+, Call: 2015, KA2 – Cooperation and Innovation for Good Practices, project no 2015-1-RO01-KA203-015089, project budget ≈ 282.260 €, Website: http://envyjobs.pub.ro
Dates	September 2014 – August 2017
Occupation or position held	Trainer
Main activities and responsibilities	Responsible for the development of a new Laboratory for pollution risk assessment concerning human and environmental health (RISK-Lab)
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „*Educational Laboratories Platform for Complex Engineering Processes with Remote Access*", Program Erasmus+, Call: 2014, KA2 – Cooperation and Innovation for Good Practices, field Strategic Partnerships for higher education, project no 2014-1-RO01-KA203-002986, project budget ≈ 254.445 €
Dates	July 2015 – December 2015
Occupation or position held	Trainer
Main activities and responsibilities	Assessment and analysis of the environmental aspects related to the coal combustion technologies
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „*Educational and Training System for Clean Coal Technology*" / CleanCOALtech, Lifelong Learning / Leonardo da Vinci Programme, project no LLP-LdV/TOI/2012/RO/007, contract budget ≈ 440.000 €
Dates	January 2013 – November 2014
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to thermal treatment for contaminated soils and consequences on environment and human health, research activities in the environmental engineering field (human health risk assessment from historical contaminated sites with toxic and persistent pollutants)
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: „*Contaminated sites assessment for the reduction of environmental pollution by risk-based approach*" / RISKASSESS, Seventh Framework Programme FP7, Capacities programme, contract no. 606/01.01.2013, project budget 56.004 lei ≈ 12.800 €

Dates	August 2012 – August 2014
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities concerning integration of the artificial intelligence in environmental protection, development of a software tool for human health risk assessment from power plants and processing industry
Name and address of employer	ECORISK Start-up, Romania
Type of business or sector	Project title: "*Management system for individual risk to public health based on the evaluation and control of industrial pollution caused by micro-pollutant emissions from combustion plants in the energy and processing industries*", POS-CCE - O2.3.1., contract no. 393/01.08.2012, project budget 850.897 lei ≈ 190.000 €
Dates	June 2010 – August 2013
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to the development and test of different technologies for soil remediation (bioremediation, thermal treatment, electro-remediation), research activities concerning integration of the artificial intelligence in environmental protection, development of a software tool for human health risk assessment from contaminated sites with toxic and persistent pollutants
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Multicriteria decision support system for the remediation of historical contaminated industrial areas with persistent and toxic pollutants*" - RECOLAND, POS-CCE - O2.1.2., contract no. 182/18.06.2010, project budget 5.936.398 lei ≈ 1.500.000 €
Dates	October 2007 – October 2009
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to evaluation of environmental impact and health risks associated with the chemical releases from power plants into the environment
Name and address of employer	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: "*Human Health Impact from Power Plants*" / IENAS, contract no. 5/1.10.2007, PN II – RP1, CNCSIS, project budget 510.000 lei ≈ 125.000 €
Dates	October 2003 – October 2007
Occupation or position held	PhD. Student
Main activities and responsibilities	Research activities in the environmental engineering field in the framework of the PhD research, research activities in the framework of national (Italian) and international projects related to environmental impact assessment
Name and address of employer	Trento University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trento, Italy, Website: http://www.unitn.it
Type of business or sector	Research, coordination of research activities related to environmental impact assessment, teaching activities
Dates	January – April 2007
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research activities related to epidemiological studies concerning waste incineration and human health risk assessment
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Type of business or sector	Project title: "*Critical analysis of epidemiological studies related to human health impact from waste incineration plants*" ("Analisi critica di studi epidemiologici riguardanti gli impatti sulla salute da impianti di termovalorizzazione dei rifiuti")
Dates	February 2006 – November 2007

Occupation or position held	WP9 coordinator assistant, assistant researcher
Main activities and responsibilities	Team assistant for Work package 9 coordination, research activities related to environmental and human health impact from highway transport
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Type of business or sector	Project title: ALPNAP – „*Monitoring and Minimisation of Traffic-Induced Noise and Air Pollution Along Major Alpine Transport Routes* ", Interreg III B – Alpine Space, (project budget 1.989.478 € ≈ 8.356.000 lei), Website: http://www.alpnap.org
Dates	October – November 2006
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research activities related to the Evaluation of the Potential Health Effects from Municipal Sludge Incinerators
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Type of business or sector	Project title: "*Comparative study related to human health impact assessment from sludge incinerators in Bozen Province*" („Studio comparative propedeutico alla valutazione di impatto ambientale per un impianto di smaltimento di fanghi in provincial di Bolzano")

Education, training and scientific degree

Dates	2020
Title of qualification awarded	Habilitation in energy engineering according to the Romanian Ministry of Education and Research Order no. 4046 / 09.04.2020. Habilitation thesis: "*Energy, Environment and Health*"
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Dates	2003 – 2007
Title of qualification awarded	PhD in energy engineering (MAGNA CUM LAUDE award). PhD thesis: "*Public Health Impact from Waste-to-Energy Plants*"
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Dates	2003 – 2007
Title of qualification awarded	PhD in environmental engineering. PhD thesis: "*Public Health Impact from Waste-to-Energy Plants*"
Name and type of organisation providing education and training	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Dates	2003 – 2004
Title of qualification awarded	Master's degree in Power Generation Environmental Impact. Master thesis: "*Critical analysis of different methods for the assessment of health effects from toxic and persistent atmospheric pollutants*"
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro
Dates	1998 – 2003
Title of qualification awarded	Environmental engineer / economic engineering
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Power Engineering, Department of Energy Production and Use, Splaiul Independenţei street no. 313, sector 6, 060042, Website: http://www.upb.ro

Summary of Courses Taught

At University POLITEHNICA of Bucharest, Romania:

- *Air Quality Monitoring and Control Master*, course, October 2017 – present
- *Human Health Risks from Non-Renewable Energy*, Master course, October 2017 – present
- *Soil and Air Quality Monitoring Techniques*, Master course, October 2017 – present
- *Environmental and economic aspects of energy conversion*, October 2017 – present
- *Environmental Systems Management*, Master course, October 2012 – present
- *Remediation Technologies for Cleaning Up Contaminated Sites*, Undergraduate course, October 2014 – present (partially)
- *Quality Safety Environmental Management System*, Master course, October 2012 – June 2016
- *Sustainable development*, Master course, October 2012 – June 2015
- *Greenhouse gas emissions and waste management*, Undergraduate course, October 2012 – June 2014 (partially)

At University of Trento, Italy:

- Basics of Ecology and Chemistry, PhD course, March 2007
- Integrated Waste Management, BSc course, November 2006
- Waste treatment technologies, BSc course, November 2006

Recognition of scientific contributions

Referee/Reviewer for scientific journals, organizer/member for scientifically events

Expert evaluator for environmental studies according to the registration in the National Register of Developers of Studies for Environmental Protection according to the provisions of the MMAP Order no. 1134 / 20.05.2020 - since 09.10.2020 published in the Official Gazette, Part I no. 445 / 27.05.2020

Guest Editor for the Special Issue for *Environmental Risk Assessment and Sustainable Remediation Approaches* of Sustainability, ISSN: 2071-1050, November 2020 – January 2022

Reviewer for *International Journal of Energy and Environmental Engineering (IJEEE)*, ISSN: 20089163, Springer, since 2020

Reviewer for Environmental Processes, ISSN: 2198-7491 (Print), 2198-7505 (Electronic), Springer, since 2019

Reviewer for Toxicological and Environmental Chemistry (TOXICOL ENVIRON CHEM), ISSN: 0277-2248 (Print), 1029-0486 (Electronic), Taylor and Francis online, since 2018

Reviewer for Sky Journal of Soil Science and Environmental Management, since 2017

Reviewer for International Journal of Environmental Science and Technology (INT J ENVIRON SCI TE) ISSN: 1735-2630 (Electronic), 1735-1472 (Print), Springer, since 2016

Reviewer for Scientific Bulletin of University POLITEHNICA of Bucharest, since 2012

Member of the National Society of Science and Environmental Engineering, since 2018

Member of the Scientific Committee of the 8th International Symposium on Cement Based Materials for a Sustainable Agriculture, Environmental Approaches – Moving Forward Agricultural Farm Sustainability (CIGR International Symposium & B.EN.A Conference), Iasi, Romania, 22 – 25 October 2015.

Coordinator for the workshop *Contaminated soils remediation and human health risk assessment*, 7th June 2013, Sinaia, Brasov, University POLITEHNICA of Bucharest, Faculty of Power Engineering.

Coordinator for the exploratory workshop no 32: *Environment and health in the national and international context*, 26th – 27th September 2012, University POLITEHNICA of Bucharest, Faculty of Power Engineering, Bucharest

Certificate or other specialized education

Certificate *IMMI software*, Wölfel, Höchberg Germany, 29/05/2008.

Certificate *Energy and development cooperation: knowledge, transfer and sharing of technology* / Energia e cooperazzione allo sviluppo: conoscenza, trasferimento e condivisione di tecnologia Engineering Without Borders - Ingegneria Senza Frontiere Trento (ISF), Italy, 2006.

Certificate *GRASS and Free Open Source GIS*, Department of Civil and Environmental Engineering (DICA) and Centre for Advanced Studies on Hydrogeological Risk in Mountain Areas (CUDAM), University of Trento, Italy, 30.06.2006.

Certificate *Appropriate Technology for Water Supply and Sanitation in Developing countries*, Engineering Without Borders - Ingegneria Senza Frontiere Trento (ISF), Italy, 2005.

Certificate *Potential of flow cytometry in the analysis of environmental matrices*, Department of Civil and Environmental Engineering (DICA), University of Trento and Autonomous Province of Trento, Italy, 2005.

Certificate no 1709 *Psycho-pedagogical and methodical training*, Teacher Training Department, University POLITEHNICA of Bucharest, Romania, 22.03.2004.

Certificate no *Aut oCAD R13, nr. UPEG – B – 001 – 945*, AutoCAD Training Center Energetica, Thermo-Hydraulic Research Center, University POLITEHNICA of Bucharest, Romania, 28.06.1999.

Certificate no 67 Analyst Programmer, Ministry of Education, Romania, 19.08.1998.

Recognition of scientific contributions

Awards

Recognition of the Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI) in the framework of the Program: Human Resources - Competition "The research results' award":

- 2020 for the research paper "*Development of laboratory-scale sequential electrokinetic and biological treatment of chronically hydrocarbon-impacted soils", S.* Crognale, **D.M. Cocârţă**, C. Streche, A. D'Annibale, New BIOTECHNOLOGY 58 (2020) 38–44, ISSN: 1871-6784 [ISI IF 3.740], PN-III-P1-1.1-PRECISI-2020-44474
- 2019 for the research paper "*Pilot-Scale Anaerobic Co-Digestion of the OFMSW: Improving Biogas Production and Start-up*", C. Stan, G. Collaguazo, C. Streche, T. Apostol, **D.M. Cocârţă**, Sustainability 2018, 10(6), 1939; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, 2019 PN-III-P1-1.1-PRECISI2019-29880
- 2018 for the research paper "*Decontamination of petroleum-contaminated soils by using the electrochemical technique: remediation degree and energy consumption*", S. Constantin, **D.M. Cocârţă**, I.A. Istrate, A.A. Badea, Scientific Reports - Nature, Scientific Reports volume 8, Article number: 3272 (2018), ISSN 2045-2322, 2018 PN-III-P1-1.1-PRECISI2018-23531
- 2018 for the research paper "*Minimizing the Health Risks from Hydrocarbon Contaminated Soils by Using Electric Field-Based Treatment for Soil Remediation*", **D.M. Cocârţă** et al., Sustainability 2017, 9(8), 1365; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, IF 1.789; 2018 PN-III-P1-1.1PRECISI-201823519
- 2017 for the research paper "*Crude Oil Contaminated Sites: Evaluation by Using Risk Assessment Approach*", **D.M. Cocârţă**, M.A. Stoian, A. Karademir, Sustainability 2017, 9(8), 1365; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, (DOI:10.3390/su9081365), PN-III-P1-1.1- PRECISI-2017-18686
- 2017 for the research paper "*Graphical methodology of global pollution index for the environmental impact assessment using two environmental components*", C. Cojocaru, **D.M. Cocârţă**, I.A. Istrate, I. Creţescu, Sustainability 2017, 9(4), 593; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, PN-III-P1-1.1- PRECISI-2017-18688
- 2013 for the research paper "*The assessment of an alternative treatment for PCB polluted soils in the Romanian context - bench scale tests*", Water air and soil pollution, vol. 224 (4), ISSN: 0049-6979 (print version), ISSN: 1573-2932 (electronic version), March 2013, 2013 PN-II-RU-PRECISI-2013-7-3295

Bibliography included in the Marquis Who's Who in the World 2012, edition no 29, Marquis Who's who, New York, USA, 2012.

Awarded for the best science research paper presented by young researchers at the Regional Energy Forum - FOREN 2008, Romania.

Evaluation activities for national and international competitions

Member of the Selection Committee for the projects under the Action - 1.1.3 "Creating synergies with RDI actions of the EU's HORIZON 2020 framework program and other international RDI programs" within the call POC 77 (project type RO-EIT) and respectively POC 78 (project type ESFRI-ERIC), in accordance with the Ministerial Order no 5957/04.11.2020 – November 2020

Independent expert for the proposed research projects of The National Council of the Higher Education's Scientific Research (CNCSIS) Romania – March 2020

Independent expert for the proposed research projects of the Bulgarian Research Programme – October 2008

Patents, registered software

Co-author of the **utility model application request** for *Method and equipment for electro-chemical technology application with change of polarity, for matrices polluted with organic / inorganic contaminants (soil, mud, silt, water)* / 17.08.2020.

Co-author of the **patent application request** for *System and method of assessment and control of industrial pollution* patent application no. A/00445 / 04.07.2017.

Registered software *Remediation of contaminated sites with petroleum products based on source-pathway-receptor conceptual model and cost-benefit analysis* (REMPET) - Register certificate Series Nr. 001788BI Nr. 08929/04.12.2017.

Registered software *Informatic system for the assessment of human health individual risk based on the evaluation and control of industrial pollution due micro-contaminants pollutants from combustion systems belonging to energy production and manufacturing industry* (EcoRisk system) – Register certificate Series S5003566 No 06713/21.07.2014.

Registered software *Multicriteria decision support system for the remediation of historical contaminated industrial areas with persistent and toxic pollutants* (RECOLAND) - Register certificate Series S5003007 No 06159/26.08.2013.

Personal skills and competences

Mother tongue: **Romanian**

Other languages

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
Italian	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Independent user
English	C1	Proficient user	C1	Proficient user	B2	Proficient user	B2	Proficient user	B2	Independent user
French	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences

Communication skills and adaptability to multicultural environments gained through the experience abroad during the doctoral research developed in Italy, participating in more than 10 training courses abroad, but also because of the experience gained in the Italian Association of Engineering without Borders whose membership I was for a period of three years (2004-2007).

Organisational skills and competences

Important experience in project management and research project implementation. I managed 2 projects financed by the European Union under the Sectoral Operational Programme - Improvement of the Competitiveness of Enterprises SOP –ICE, 2007 – 2013, project with a budget of about 1.500.000 € and 190.000 €, respectively, and two projects financed by the national Government (project budget 125.000 € and 122.000 €, respectively). Member of the research teams belonging to different national and international projects.

Computer skills and competences

Operating system: Windows
Programming: C + +, Mat Lab
Software Packages: Word, Excel, PowerPoint, ExternE

Driving licence

Category B

Additional information

International cooperation: in charge with different Erasmus bilateral agreements for 6 universities from different countries as Italy, Greece, Turkey and Spain.

Publications in summary:

- **2 books and 7 chapters** published by national and international Publishing Houses from Romania and abroad
- **2 Guidelines for Laboratory Practices**
- **over 80 scientific papers**:
  - 23 scientific papers published in international journals ISI indexed between which one was published in Nature Scientific Reports (IF 4.259)
  - 16 papers presented and published in ISI proceedings of different international conferences
  - 15 scientific papers published in international IDB indexed journals
  - 4 papers presented and published in IDB proceedings of different national or international conferences
  - 9 scientific papers published in national and international journals (with ISBN or ISSN)
  - 15 papers presented at different national or international conferences
  - different other unpublished communications

Research and Publications

Habilitation Thesis: Energy, Environment and Health

PhD Thesis: Public Health Impact from Waste-to-Energy Plants

Books / e-books and book chapters:

- **D.M. Cocârţă**, C. Stan, *Human Health Risks from Energy Industry - Informatic Tools human Health Risks Assessment / Riscuri pentru Sănătate în Industria Energetică - Soluții software destinate evaluării riscurilor pentru sănătatea populației*, Guidelines for Laboratory Practices - Îndrumar de laborator și aplicații practice, ISBN 978-606-515-854-2; Editura Politehnica Press, Universitatea Politehnica din Bucureşti, 2019, pp.1 - 101.
- **D.M. Cocârţă**, *Soil and Air Quality Monitoring Techniques*, Saxion University of Applied Sciences, Netherlands, ISBN 9789462130234, pp. 1-202, 2018 (e-book).
- **D.M. Cocârţă**, C. Streche, *Techniques for air and soil quality monitoring / Tehnici de monitorizare a calităţii aerului şi solurilor*, Guidelines for Laboratory Practices - Îndrumar de laborator și aplicații practice, ISBN 978-606-515-775-0; Editura Politehnica Press, Universitatea Politehnica din Bucureşti, 2017, pp.1 - 98.
- **D.M. Cocârţă,** *Human Health Risks from Non-Renewable Energy*, ISBN 978-606-515-778-4; Editura Politehnica Press, Universitatea Politehnica din Bucureşti, pp. 1-114, 2017.
- **D.M. Cocârţă**, *La valutazione del rischio per la salute. Uno dei criteri decisionali*, Chapter 8, Book: Energia da Biomasse e Rifiuti, Franco Angeli, Fondazione AMGA, pp. 45 – 49, ISBN 978-88-568-0309-9, Milano, Italy, 2008.
- Heimann, D., Clemente, M., Elampe, E., Only, X., Miège, B., Defrance, J., Baulac, M., **D.M. Cocârţă**, (...), Van, T., Air Pollution, *Traffic Noise and Related Health Effects in the Alpine Space. A Guide for Authorities and Consulters*, Publisher: Università degli Studi di Trento, Editor: Dietrich Heimann, Trento, December 2007, ISBN 978-88-8443-208-7, pp. 1-355.
- M. Ragazzi, E. C. Cristina, **D.M. Cocârţă**, M. Venturi, E. Malloci, M. Bianchi, A. Crescimano, *Combustione diretta e indiretta di fanghi*, Book edited by the University of Trento - Italy, La valorizzazione energetica dei fanghi di depurazione, Raccolta di contrbuti, Quaderni del Dipartimento SAN 5, Università degli Studi di Trento, DICA, ISBN 10 88-8443-135-2, ISBN 13: 978-88-8443-135-6, pp. 45-55, noiembrie 2006.
- A. Badea, A. Cemin, **D.M. Cocârţă**, P. Scaramuzza, *Impatto degli inquinanti sull'ambiente e sulla salute*, Chapter 7, Book: Introduzione alla termovalorizzazione dei rifiiuti, Franco Angeli, Fondazione AMGA, pp. 125 – 149, ISBN 88-464-7638-7, Milano, Italy, 2006.
- A. Cemin, **D.M. Cocârţă**, P. Scaramuzza, Emissioni gasosi, Chapter 5, Book: *Introduzione alla termovalorizzazione dei rifiiuti*, Franco Angeli, Fondazione AMGA, pp. 89 – 115, ISBN 88-464-7638-7, Milano, Italy, 2006.
- T. Apostol, **D.M. Cocârţă**, L. Lazăr, C. Mărculescu, E. C. Rada, *Un esempio di collaborazione internazionale nel settore della valorizzazione energetica dei rifiuti*, Book (edited by the University of Trento - Italy), Innovazioni nel settore del trattamento termico dei rifiuti speciali, Quaderni del Dipartimento SAN 3, Università degli Studi di Trento, DICA, ISBN 88- 8443-077-1, pp. 139-145, 2004.
- T. Apostol, A. Badea, A. Cemin, **D.M. Cocârţă**, M. Ragazzi, P. Scaramuza, *Analisi dei valori di cancer potency di diossine e furani proposti in letteratura*, Book (edited by the University of Trento, Italy), Innovazioni nel settore del trattamento termico dei rifiuti speciali , Quaderni del Dipartimento SAN 3, Università degli Studi di Trento, DICA, ISBN 88- 8443-077-1, pp. 101-119, 2004.

Research papers published in ISI indexed journals:

- S. Crognale, **D.M. Cocârţă**, C. Streche, A. D'Annibale, *Development of laboratory-scale sequential electrokinetic and biological treatment of chronically hydrocarbon-impacted soils.* New BIOTECHNOLOGY 58 (2020) 38–44, ISSN: 1871-6784 [ISI IF 3.740] https://doi.org/10.1016/j.nbt.2020.04.002.
- M.A. Stoian, C. Stan, **D.M. Cocârţă**, A. Badea, C. Feodorov, *Reducing cancer risk from environmental exposure to PAHs through the pyrolysis treatment of crude oil contaminated soil.* U.P.B. Sci. Bull., Series C, Volume: 82. Issue 1, 2020. ISSN 2286-3540. [ISI indexed journal]

Research and Publications

Research papers published in ISI indexed journals:

- **D.M. Cocârţă**, DM Dumitru, L. Pesciaroli, M. Felli, B. Raduly, S.Crognale, *Cultivable Hydrocarbonoclastic Microbial Community from Historically Polluted Soil: Tests for Consortium Development*. Soil and Sediment Contamination: An International Journal. ISSN: 1532-0383 (Print) 1549-7887 (Online). ISI WOS:000495433600008 [ISI IF 0.992] https://doi.org/10.1080/15320383.2019.1578335.
- **D.M. Cocârţă**, Robescu LM, Negrea LA, *Virtual Education for Environmental Engineers*, BRAIN – Broad Research in Artificial Intelligence and Neuroscience, Volume 10, Issue 1 (January - February 2019), ISSN 2067-3957. ISI WOS: WOS:000457502300006. [ISI indexed journal].
- A. Danu, **D.M. Cocârţă**, V. Tanasiev, A.A. Badea, *The influence of dust deposition on the energy performance of the photovoltaics*, U.P.B. Sci. Bull., Series C, Volume: 80 Issue: 3 Pages: 183-196, ISSN: 2286-3540; eISSN: 2286-3559, ISI WOS:000440896700015. [ISI indexed journal]
- C. Stan, G. Collaguazo, C. Streche, T. Apostol, **D.M. Cocârţă**, *Pilot-Scale Anaerobic Co-Digestion of the OFMSW: Improving Biogas Production and Start-up*, Sustainability 2018, 10(6), 1939; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, https://doi.org/10.3390/su10061939 ISI WOS:000436570100251. [ISI IF 2.592]
- C. Streche, **D.M. Cocârţă**, I.A. Istrate Irina Aura, A.A. Badea, *Decontamination of petroleum-contaminated soils by using the electrochemical technique: remediation degree and energy consumption*, Scientific Reports - Nature, Scientific Reports volume 8, Article number: 3272 (2018), ISSN 2045-2322. [ISI IF 4.120] https://doi.org/10.1038/s41598-018-21606-4.
- I.A. Istrate, **D.M. Cocârţă**, Wu Zucheng, M.A. Stoian, *Minimizing Risks from Hydrocarbon Contaminated Soils by Using Electric Field Based Treatment for Soil Remediation*, Sustainability, Sustainability 2018, 10(1), 253; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland https://doi.org/10.3390/su10010253 ISI WOS:000425082600246. [ISI IF 2.592]
- **D.M. Cocârţă**, M.A. Stoian, A. Karademir, *Crude Oil Contaminated Sites: Evaluation by Using Risk Assessment Approach*, Sustainability 2017, 9(8), 1365; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, https://doi.org/10.3390/su9081365 ISI WOS:000408861800080. [ISI IF 2.592]
- **D.M. Cocârţă**, V.R. Subtirelu, A.A. Badea, *Effect of sewage sludge application on wheat crop productivity and heavy metal accumulation in soil and wheat grain*, Environmental Engineering and Management Journal, May 2017, Vol.16, No. 5, pages: 1093-1100; Print ISSN: 1582-9596 eISSN: 1843-3707, ISI WOS:000409069600008. [ISI IF 1.186]
- A.C. Cojocaru, **D.M. Cocârţă**, I.A. Istrate and I. Creţescu, *Graphical methodology of global pollution index for the environmental impact assessment using two environmental components*, Sustainability 2017, 9(4), 593; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, https://doi.org/10.3390/su9040593 ISI WOS:000402090300115. [ISI IF 2.592]
- M.A. Diminescu, A.M. Marinov, G.E. Dumitran, **D.M. Cocârţă**, L.I. Vuţă, *Experimental laboratory studies on capillary fringe behaviour*, Environmental Engineering and Management Journal, March 2017, Vol.16, No. 3, pages: 581-586; Print ISSN: 1582-9596 eISSN: 1843-3707, ISI WOS:000403508600009. [ISI IF 1.186]
- **D.M. Cocârţă**, V.R. Subţirelu, A.A. Badea, *The effect of sewage sludge on energy willow (SALIX VIMINALIS "ENERGO") productivity*, U.P.B. Sci. Bull., Series C, Vol. 79, Iss. 2, pp: 207-216, 2017 ISSN 2286-3540, ISI WOS:000405770800019. [ISI indexed journal]
- **D.M. Cocârţă**, S. Neamţu, A.M. Reşetar-Deac, *Carcinogenic risk evaluation for human health risk assessment from soils contaminated with heavy metals*, International Journal of Environmental Science and Technology, Int. J. Environ. Sci. Technol. (2016) 13: 2025, Springer, ISSN: 1735-1472 (print version), ISSN: 1735-2630 (electronic version), https://doi.org/10.1007/s13762-016-1031-2 ISI WOS:000379709700013. [ISI IF 2.031]
- **D.M. Cocârţă**, G.E. Dumitran, M.A. Diminescu, L. Vuţă, *Removal efficiency and gas/particle partitioning of PCBs emissions from thermal treatment of PCBs contaminated soil*, Journal of Environmental Protection and Ecology 17, No 3, 970–977 (2016), ISSN 1311-5065, ISI WOS:000385910400016. [ISI IF 0.634]
- **D.M. Cocârţă**, I.A. Istrate, C. Bulmău, V. Tanasiev, C. Dumitrescu, *Different methods for Polychlorinated Biphenyls Removal from Contaminated Soils*, Rev. Chim. (Bucharest) 65, No. 1, 2014, pp. 44 – 49, ISSN 0034-7752. ISI WOS:000334150300008. [ISI IF 1.605]
- C. Bulmău, **D.M. Cocârţă**, *Behaviour of PCBs in remediation by oxygen free thermal treatments of an artificially contaminated soil*, UPB Scientific Bulletin, Series C, Vol. 76, Iss. 3, 2014, pp. 207 – 214, ISSN 2286 – 3540, October 2014. [ISI indexed journal]

© European Union

Research and Publications

Research papers published in ISI indexed journals:

- C. Bulmău, S. Neamțu, **D.M. Cocârţă**, I.A. Istrate, A.A. Badea, *Efficiency of PAHs removal from soils contaminated with petroleum products using ex-situ thermal treatments*, Rev. Chim. (Bucharest), 64, pp. 1430 - 1435, no. 12, December 2013, ISSN 0034-7752, ISI WOS:000330914400014. [ISI IF 1.605]
- I.A. Istrate, **D.M. Cocârţă**, C. Bulmău, A.A. Badea, *The influence of pH and ORP for efficiency of electrochemical treatment efficiency applied for organic polluted soils*, Rev. Chim. (Bucharest), 64, pp. 1250 - 1254, no. 11, November 2013, ISSN 0034-7752, ISI WOS:000328441600008. [ISI IF 1.605]
- I.A. Istrate, **D.M. Cocârţă**, S. Neamțu, T. Cîrlioru, *The Treatment of PCB Polluted Soil-The Approach Based on the Application of Electrochemical Treatment*, Water air and soil pollution, vol 224 (4), DOI: 10.1007/s11270-013-1516-2, ISSN: 0049-6979 (print version), ISSN: 1573-2932 (electronic version), April 2013, https://doi.org/10.1007/s11270-013-1516-2 ISI WOS:000317619700032. [ISI IF 1.774]
- A.R. Lăcătuşu, **D.M. Cocârţă**, R. Lăcătuşu, *Ex-situ bioremediation efficiency in removing organic and inorganic compounds from artificially and anthropogenic contaminated soil*, Carpathian Journal of Earth and Environmental Sciences, Volume 8, 2013, No. 1, Feb. 2013, p. 59-70, ISSN Printed: 1842 – 4090, ISSN Online: 1844 - 489X, ISI WOS:000315472400006. [ISI IF 0.907]
- **D.M. Cocârţă**, A. Badea, G. Antonacci, A. Cemin, *Two case studies of particulate matter emissions from power plants*, Environmental Engineering and Management Journal, Vol. 10, No. 5, pp. 615 – 619, ISSN 1582-9596, May 2011; Print ISSN: 1582-9596; eISSN: 1843-3707, ISI WOS:000292409500004. [ISI IF 1.186]
- **D.M. Cocârţă**, E. C. Rada, M. Ragazzi, A. Badea, T. Apostol, *A contribution for a correct vision of health impact from municipal solid waste treatments*, Environmental Technology, (2009) Volume: 30 Issue: 9 Pages: 963-968 Article Number: PII 913697109, ISSN 1479-487X (electronic,) pp. 963-968, 0959-3330 https://doi.org/10.1080/09593330902989958 ISI WOS:000268757800011. [ISI IF 1.918]

Papers presented and included in ISI indexed proceedings of international conferences:

- Z. Pásztai, F. Branner, K. Hübner, T. Apostol, C. Stan, **D.M. Cocârţă**, C. Streche, V. Rusu, *A Romanian zero waste strategy: Salacea and Cociuba Mare case study*, 9th International Conference on Energy and Environment 2019, 17 - 18 October 2019, INSPEC Accession Number: 19228500, doi: 10.1109/CIEM46456.2019.8937584 [ISI Proc. IEEE Xplore]
- **D.M. Cocârţă**, A.M. Velcea (Nicolescu), C. Harber, A. Badea, *Benefits and potential risks to humans from agricultural use of sewage sludge*, Conference: 19th SGEM International Multidisciplinary Scientific GeoConference EXPO Proceedings, DOI: 10.5593/sgem2019/5.2/S20.023, June 2019, Bulgaria [ISI Proc.]
- **D.M. Cocârţă**, A.M. Velcea (Nicolescu), C. Stan, A. Badea, *Evaluation of the Emissions from the Pyrolytic Treatment of PAHs Soil Contaminated Soil*, Conference: The 5th World Congress on New Technologies, DOI: 10.11159/ICEPR19.126, August 2019, Portugal [ISI Proc.]
- D.M. Dumitru, S. Crognale, **D.M. Cocârţă**, A. Badea, *Pollution assessment of historically contaminated soils with petroleum products*, The 8th International Conference on ENERGY and ENVIRONMENT (CIEM) 2017, IEEE Power & Energy Society, Book Series: International Conference on Energy and Environment, pages: 138-142, ISI WOS:000427610300030. [ISI Proc. IEEE Xplore]
- C. Streche, T. Baracu, T. Apostol, **D.M. Cocârţă**, C. Stan, *Evaluation of the efficiency of combining the electrochemical remediation and soil flushing methods in the soil contamination with diesel*, 017 8TH INTERNATIONAL CONFERENCE ON ENERGY AND ENVIRONMENT (CIEM) 2017, IEEE Power & Energy Society, Book Series: International Conference on Energy and Environment, pages: 143-147 ISI WOS:000427610300031. [ISI Proc. IEEE Xplore]
- I.A. Istrate, M.N. Dincă, M. Ferdeş, **D.M. Cocârţă**, *The use of ozone in combination with electrochemical treatment for the remediation of organic polluted soils*, Actual Tasks on Agricultural Engineering, Proceedings of the 45th International Symposium on Agricultural Engineering, January 2017, Opatija, Croatia, Book Series: Actual Tasks on Agricultural Engineering-Zagreb, Volume: 45 Pages: 63-70, Published: 2017, Document Type: Proceedings Paper ISSN: 1848-4425, WOS:000432420200006. [ISI Proc.]

Research and Publications

Papers presented and published in ISI indexed proceedings of international conferences:

- M.A. Stoian, **D.M. Cocârţă**, A. Badea, D.M. Dumitru, *Carcinogenic risk assessment of heavy metals contamination due to accidental oil spills on soil*, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Albena, Bulgaria, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7408-00-3 / ISSN 1314-2704, 27 June - 6 July, 2017, Vol. 17, Issue 14, 571-578 pp, DOI: 10.5593/sgem2017/14/S06.072. [ISI Proc.]
- **D.M. Cocârţă**, C. Streche, D.M. Dumitru, M.A. Stoian, *Ex-situ remediation of petroleum-contaminated soil by pyrolysis process*, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, SGEM2017, Albena, Bulgaria, Conference Proceedings, ISBN 978-619-7408-00-3 / ISSN 1314-2704, 27 June - 6 July, 2017, Vol. 17, Issue 14, 643-650 pp, DOI: 10.5593/sgem2017/14/S06.081. [ISI Proc.]
- M.A. Stoian, **D.M. Cocârţă**, A. Badea, *Assessment of carcinogenic risk from soil pollution based on polycyclic aromatic hydrocarbons*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, 2 - 5 November, 2016, SGEM Vienna GREEN 2016, Austria, Science and Technologies in Geology, Exploration and Mining - Conference Proceedings, Volume IV, pp. 49-56, ISBN 978-619-7105-80-3, ISSN 1314-2704, DOI: 10.5593/SGEM2016/HB14/S01.007, ISI WOS:000395499900007. [ISI Proc.]
- **D.M. Cocârţă**, D.M. Dumitru, A.R. Lăcătuşu, A. Badea, *Evaluation of bioremediation efficiency in crude-oil contaminated soils*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, 2 - 5 November, 2016, SGEM Vienna GREEN 2016, Austria, Science and Technologies in Geology, Exploration and Mining - Conference Proceedings, Volume IV, pp. 103 - 110, ISBN 978-619-7105-80-3, ISSN 1314-2704, DOI: 10.5593/SGEM2016/HB14/S01.014, ISI WOS:000395499900014. [ISI Proc.]
- C. Bulmău, **D.M. Cocârţă**, A.M. Reşetar, *Evaluation of Integrated Time-Temperature Effect in Pyrolysis Process of Historically Contaminated Soils with Cadmium (Cd) şi Lead (Pb)*, Conference Proceedings, ICHMET 2012: 16th International Conference on Heavy Metals in the Environment, 23 – 27 September 2012, Roma, Italia, E3S Web of Conferences 1, 01005 (2013), Proceedings of 16th International Conference on Heavy Metals in the Environment, Book Series: E3S Web of Conferences Volume: 1, Article Number: 01002, DOI: 10.1051/e3sconf/20130101002, ISI WOS:000326475400002. [ISI Proc.]
- **D.M. Cocârţă**, R. Dinu, C. Dumitrescu, A.M. Reşetar, V. Tanasiev, *Risk Based Approach for Thermal Treatment of Heavy Metals Contaminated Soil*, Conference Proceedings, ICHMET 2012: 16th International Conference on Heavy Metals in the Environment, 23 – 27 September 2012, Roma, Italy, Proceedings of 16th International Conference on Heavy Metals in the Environment, Book Series: E3S Web of Conferences Volume: 1 Article Number: 01005, E3S Web of Conferences 1, 01005 (2013), DOI:10.1051/e3sconf/20130101005, ISI WOS:000326475400005. [ISI Proc.]
- **D.M. Cocârţă**, I. A. Oprea, M. Ragazzi, G. Andreotolla, G. Ziglio, A. Badea, T. Apostol, *Different technologies for the treatment of PAH contaminated sediments and consequences on human health individual risk*, Environmental Toxicology, 4 – 6 iunie 2008, Granada, Spain, Environmental Toxicology II, Book Series: WIT Transactions on Ecology and the Environment, Volume: 110, Editors A. G. Kungoloş eta al., WITPRESS Southampton, Boston 2008, ISSN 1743-3541: vol. 110, pp. 53-60, ISI WOS:000257704900006. [ISI Proc.]
- **D.M. Cocârţă**, A. Badea, T. Apostol, *Characterization of Energy Production and Health Impact in Romanian context*, February 23-25, 2008 "3rd IASME/WSEAS Int. Conference on Energy & Environment, University of Cambridge, UK, Energy and Environment Engineering Series, A Series of Reference Books and Textbooks, Proceedings of The 3rd Iasme/WSEAS International Conference On Energy & Environment: Energy And Environment III, ISBN: 978-960-6766-43-5, ISSN: 1790-5095, pp.198-203, ISI WOS:000254169000029. [ISI Proc.]
- **D.M. Cocârţă**, A. Cemin, M. Ragazzi, A. Badea, *The role of apples role in the PCDD/F daily dietary-intake*, 5 – 7 October 2005, Environmental Exposure and Health, Section 6: Chemical mixtures and exposure, Atlanta, USA 2005, Environmental Exposure and Health Book Series: WIT Transactions on Ecology and the Environment Volume: 85, pages: 249-255, ISBN: 1-84564-029-2, ISBN: 1746-449X (print), ISBN: 1743-3541 (on-line), pp. 249 – 255, ISI WOS:000236906600027. [ISI Proc.]
- P. Baggio, A. Cemin, **D.M. Cocârţă**, Gasparella A., M. Ragazzi, *Local and global impact considerations on turbo gas combined cycle*, 3rd International Conference on the Impact of Environmental Factors on Health, 14-16 Sept. 2005, Bologna, Italy, Environmental Health Risk III, Editor Wessex Institute of Technology, 2005,vol. 9 of WIT Transactions on Biomedicine and Health (ISSN 1743-3525), pp. 151-158, 2005 (on-line), ISI WOS:000235839200016. [ISI Proc.]

Research and Publications

Research papers published in IDB indexed journals:

- **D.M. Cocârţă**, M.A. Stoian, A Badea, *Human health risk assessment: a case study involving Polycyclic Aromatic Hydrocarbons soil contamination and human exposure*, International Journal of Advances in Science, Engineering and Technology (IJASEAT), Volume-4, Issue-1, Jan.-2016, ISSN: 2321 –9009, pp. 147-152. JIFACTOR 3.15. [Index Copernicus]
- **D.M. Cocârţă**, V.R. Subţirelu, A. Badea, *The effect of sewage sludge on yield and quality of potatoes*, International Journal of Advances in Science, Engineering and Technology (IJASEAT), International Journal of Advances in Science, Engineering and Technology (IJASEAT), Volume-4, Issue-1, Jan.-2016, ISSN: 2321 –9009, pp. 143-146. JIFACTOR 3.15. [Index Copernicus]
- I.A. Istrate, **D.M. Cocârţă**, S. Neamţu, T. Cîrlioru, C. Dumitrescu, *Assessment of electrochemical treatment efficiency for artificially contaminated soil with PAHs and PCBs*, Present Environment and Sustainable Development, Editura Universităţii „Alexandru Ioan Cuza", Volume 7, no. 2 / 2013, pp. 157 – 168, Iaşi, ISSN: 1843 – 5971, 2013 (12 pagini). [EBSCO. Index Copernicus]
- C. Bulmău, A. Badea, **D.M. Cocârţă**, G. Paraschiv, *Evaluation the non-oxidative thermal technology for removal of petroleum products from contaminated soils*, Present Environment and Sustainable Development, Editura Universităţii „Alexandru Ioan Cuza", Volume 7, no. 1 / 2013, pp. 165-175, Iaşi, ISSN: 1843 – 5971, 2013. [EBSCO. Index Copernicus]
- I.A. Istrate, **D.M. Cocârţă**, A. Badea, T. Cîrlioru, *Influence of pH and redox potential on electrochemical treatment efficiency in case of soil pollution with petroleum products*, Editura Politehnium, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc.3, Secţia Chimie şi Inginerie Chimică, 2012, pp.19-27, ISSN:0254-7104. [Index Copernicus]
- C. Bulmău, **D.M. Cocârţă**, S. Neamţu, C. Dumitrescu, A.A. Badea, *Environmental Assessment of Pyrolysis as Ex-Situ Thermal Treatment Applied to PAHs Contaminated Soils*, Editura Politehnium, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc.3, Secţia Chimie şi Inginerie Chimică, 2012, pp.111-121, ISSN:0254-7104. [Index Copernicus]
- S. Neamţu, A.M. Reşetar, C. Dumitrescu, **D.M. Cocârţă**, *Impact assessment of PAHs and heavy metals from industrial pollution sources in a Central Romania area*, Editura Politehnium, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc.3, Secţia Chimie şi Inginerie Chimică, 2012, pp.65-68, ISSN:0254-7104. [Index Copernicus]
- C. Dumitrescu, **D.M. Cocârţă**, A.A. Badea, *An integrated modeling approach for risk assessment of heavy metals in soils*, UPB Sci. Bull., Series D, Vol. 74, Iss. 3, 2012 ISSN 1454-2358, pg. 217-228, September 2012 [Inspec. Scopus. Ulrich. Elsevier. Compendex]
- C. Dumitrescu, **D.M. Cocârţă**, A.M. Resetar-Deac, A. Badea, M. Biolan, *Human health Risk Assessment of contaminated sites with carcinogenic pollutants*, Present Environment and Sustainable Development, Editura Universităţii Al.I. Cuza Iaşi, Volume 6, nr. 2/2012, pp. 415-428, C.N.C.S.I.S. Index B+. [EBSCO, Index Copernicus]
- S. Neamţu, **D.M. Cocârţă**, A.M. Resetar, A. Badea, *Environmental assessment of PCB's occurance in soil due to industrial pollution – a case study in correlation with the legal limits in force in Romania and European provisions*, Proceedings-ul Conferintei Naţionale de Ştiinţa Solului – edition XX, SNRSS 20, Craiova, Romania, 26 August – 1 September 2012, Analele Universităţii din Craiova, seria Agricultură – Montanologie – Cadastru Vol. XLII-2012/1, p. 95 – 101, ISSN 1841-8317 http://193.231.39.53/index.php. [Index Copernicus]
- C. Bulmău, **D.M. Cocârţă**, S. Neamţu, *Removal of benzo(a)pyrenne from oil contaminated soil by oxygen free thermal treatments*, Proceeding-ul Conferinţei Naţionale de Ştiinţa Solului - ediţia XX, SNRSS 20, Craiova, Romania, 26 August – 1 September 2012, Analele Universităţii din Craiova, seria Agricultură – Montanologie – Cadastru Vol. XLII-2012/1, p. 95 – 101, ISSN 1841-8317. [Index Copernicus]
- I.A. Istrate, A. Badea, **D.M. Cocârţă**, C. Bulmău, *Electrochemical treatment of PAH contaminated sediments and human health risk assessment*, Present Environment and Sustainable Development, Ed. Univ. „Alexandru I. Cuza", Volume 5, no. 1/2011, pp. 101-112, Iaşi, ISSN: 1843 – 5971, 2011. [EBSCO, Index Copernicus]

Research and Publications

Research papers published in IDB indexed journals:

- C. Bulmău, A. Badea, **D.M. Cocârţă**, I.A. Istrate, *Applications of the thermochemical treatments in the sustainable development context*, Present Environment and Sustainable Development, Ed. Univ. „Al. I. Cuza", Volume 5, no. 1/2011, pp. 121-129, Iaşi, ISSN: 1843 – 5971, 2011. [EBSCO, Index Copernicus]
- **D.M. Cocârţă**, A. Badea, M. Ragazzi, T. Apostol, *Methodology for the Human Health Risk Assessment from the Thermoelectric Plants*, UPB Scientific Bulletin, Series C: Inginerie Electrica, Vol. 70, No. 1, Editura POLITEHNICA Press, ISSN 1454-234x, 2008, pp. 41-50. [Inspec. Scopus. Ulrich. Elsevier]
- **D.M. Cocârţă**, M. Ragazzi, A. Badea, T. Apostol, *The HRAIRC software for assessing the human health risk from waste-to-energy plants*, UPB Scientific Bulletin, Series C: Inginerie Electrica, Vol. 69, No. 4, Editura POLITEHNICA Press, ISSN 1454-234x, 2008, pp. 517-524. [Inspec. Scopus. Ulrich. Elsevier]

Research papers presented and published in IDB indexed proceedings of international conferences:

- I.A. Istrate, D.M. Dumitru, **D.M. Cocârţă**, *Electrochemical remediation of soils in case of a complex pollutant mixture*, Environmental Engineering, renewable engineering sources, sustainable agricultural engineering, ISB-INMA TEH' 2017 International Symposium, University POLITEHNICA of Bucharest, Romania. [CABI. IndexCopernicus. EBSCO]
- I.A. Istrate, **D.M. Cocârţă**, *The assessment of environmental impact due to the traffic in Bucharest*, 8 – 10 July 2017, Proceedings of 6th International Conference on Thermal Equipment, Renewable Energy and Rural Development, Moieciu de Sus, Romania. [IndexCopernicus]
- I.A. Istrate, **D.M. Cocârţă**, G. Voicu, *Implementation of RECOLAND project for the remediation of contaminated sites*, 44th International Symposium "Actual Tasks on Agricultural Engineering", 23rd – 26th February 2016, Opatija, Croatia, 23rd – 26th February 2016. [CABI]
- **D.M. Cocârţă**, M.A. Stoian, A.A. Badea, *Assessment of human health risk from crude oil contaminated soils: pollution with PAHs*, 10th International Conference on Energy & Environment (EE'15) - WSEAS – Budapest, Hungary, ISSN: 2227-4359, ISBN: 978-1-61804-356-6, December 12 – 14, 2015. [Cabi, ACM, INSPEC]

Research papers published in other international journals:

- M.A. Stoian, **D.M. Cocârţă**, A. Badea, *Human Health Risk Assessment from Metals Present in a Soil Contaminated by Crude Oil*, World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering Vol:11, No:5, 2017, scholar.waset.org/1999.6/10007768.
- **D.M. Cocârţă**, I.A. Istrate, C. Streche, D.M. Dumitru, *Removal of Total Petroleum Hydrocarbons from Contaminated Soils by Electrochemical Method*, World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering Vol:11, No:5, 2017, scholar.waset.org/1999.6/10007754.
- **D.M. Cocârţă**, E. Cherubini, M. Ragazzi, A. Badea, T. Apostol, *Come trasformare un inceneritore in un distruttore di diossina*, Rifiuti Solidi Review, Anno XX N. 5, Septembrie - Octombrie 2006, ISSN: 0394 - 5391, Italy. Google Scholar.

Research papers published in other national journals:

- T. Apostol, Z. Pásztai, A.M. Velcea, **D.M. Cocârţă**, C. Stan, C. Streche, K. Hübner, *Parteneriat public privat de lungă durată: Universitatea POLITEHNICA din București – SC ECOBihor SRL* / Long-term public-private partnership: University POLITEHNICA of Bucharest - SC ECOBihor SRL Oradea, Revista Managementul Deșeurilor / Waste Management Journal, nr 1 (73) XVIII, March 2020.
- T. Apostol, Z. Pásztai, A. Todirașcu, **D.M. Cocârţă**, C. Stan, C. Streche, A.M. Velcea, K. Hübner, C. Feodorov, *Procese și sisteme operaționale pentru tratarea și valorificarea materială și energetică a deșeurilor* / Processes and operational systems for waste treatment with material and energy recovery, Revista Managementul Deșeurilor / Waste Management Journal, December 2019.

Research and Publications

Research papers published in other national journals:

- L. D. Robescu, **D.M. Cocârţă**, *Instrumente inovative educaționale în ingineria mediului/ Educational innovative tools in environmental engineering*, Revista Asociatiei Romane a Apei, ROMAQUA, ISSN: 1453-6986 pp. 31 – 38, no 3, 2018.
- **D.M. Cocârţă**, *RECOLAND – Sistem decizional multicriterial pentru remedierea siturilor contaminate cu poluanți toxici și persistenți din marile zone industriale* / RECOLAND - *Multicriteria decision support system for the remediation of historical contaminated industrial areas with persistent and toxic pollutants*, Buletin CENTIREM, Nr. 7, 2013, ISSN: 1584 - 1065, Editura Universitas din Petroșani. Cod CNCSIS 194.
- **D.M. Cocârţă**, RP-1 project presentation, *History of My Return*, pp. 16 – 21, CNCSIS – UEFISCSU National University Research Council, National Conference of Scientific Research in Romanian Higher Education – CNCSIS 10, Braşov, Romania, 2008.
- T. Apostol, A. Badea, **D.M. Cocârţă**, M. Ragazzi, *Incinerarea - o alternativă viabilă de tratare a deşeurilor/Waste-to-Energy Plants – an alternative for waste treatment*, Revista Salubritatea, nr. 2 (14) / 2005, pp. 32-35, Editată de Asociaţia Română de Salubritate, Bucureşti, România, 2005.

Research papers presented and published in proceedings of international conferences:

- **D.M. Cocârţă**, C. Stan, C. Streche, O.L. Turcu, T. Apostol, *Thermal treatment and electric field-based approaches for PAHs remediation from contaminated soils*, Environmental Legislation, Safety Engineering and Disaster Management, ELSEDIMA 12th International Conference, 17 - 19 May 2018, Cluj-Napoca, Romania.
- **D.M. Cocârţă**, C. Stan, C. Streche, A. Badea, Dispersion Modeling of Emissions from Fossil Fuel Fired Power Plants, The 13th WEC Central & Eastern Europe Regional Energy Forum - FOREN 2016, 12-16 June, Romania.
- E.E. Manea, L.D. Robescu, **D.M. Cocârţă**, *Municipal wastewater treatment greenhouse gasses emissions – evaluation and reduction solutions*, International Conference GREDIT'2016 – Green Development Infrastructure Technology, Book of Abstracts, Skopje, 31 March – 2 April 2016. ISBN 978-608-4624-22-6.
- **D.M. Cocârţă**, I.A. Istrate, T.M. Oprea, C. Dumitrescu, *General Overview of RECOLAND project from start to end*, 6th International Conference on ENERGY and ENVIRONMENT (CIEM 2013), Bucharest, Romania, 7 - 9 November 2013, CD Conference Proceedings.
- C. Bulmău, **D.M. Cocârţă**, *Behaviour of PCBs in remediation by oxygen free thermal treatments of an artificially contaminated soil*, 6th International Conference on ENERGY and ENVIRONMENT (CIEM 2013), Bucharest, Romania, 7 - 9 November 2013. CD Conference Proceedings.
- **D.M. Cocârţă**, A.A. Badea, G. Antonacci, A. Cemin, G. Vignoli, *Human Health risk assessment from the emissions of a Romanian thermoelectric power plant*, 4th International Conference on ENERGY and ENVIRONMENT (CIEM 2009), Bucharest, Romania, 12 - 14 November 2009, CD Conference Proceedings.
- A. Badea, **D.M. Cocârţă**, T. Apostol, *Methodologies for assessing human health impact from power plants*, Forumul Naţional al Energiei, FOREN 2008, Secţiunea Politici Energetice şi Producerea Energiei, 15-19 June 2008, Neptun, Romania (*Awarded for the best science research paper presented by young researchers*), 2008.
- **D.M. Cocârţă**, M. Ragazzi, A. Badea, T. Apostol, *Critical analysis of the EU regulation on waste incineration plants related to heavy metals emissions*, 3 - 7 October 2007 – "11th International Waste Management and Landfill Symposium, Santa Margherita di Pula (Cagliari), Sardinia, Italy, 2007.
- **D.M. Cocârţă**, M. Ragazzi, A. Badea, T. Apostol, *Critical analysis of a method for the assessment of health effects of the toxic and persistent atmospheric pollutants from waste-to-energy plants*, International Conference Energy & Environment CIEM 20 - 22 October 2005, pp. 4/48 – 4/53, Editura Universul Energiei, Bucharest, 2005.
- **D.M. Cocârţă**, M. Ragazzi, A. Badea, T. Apostol, *Waste to energy options: indicators for health risk assessment*, Workshop, International Conference Energy & Environment CIEM, 20 - 22 October 2005, Book: Managementul deşeurilor urbane şi industriale, Editura Universul Energiei, pp. 42 – 46, Bucharest, 2005.

Research and Publications

Research papers presented and published in proceedings of international conferences:

- P. Baggio, M. Ragazzi, L. Fiori, M. Grigiante, E. C. Rada, N. Sibisi, M. Baratieri, **D.M. Cocârţă**, L. Lazăr, *Waste to energy options: the University of Trento team, Workshop*, International Conference Energy & Environment CIEM, 20 - 22 October 2005, Book: Managementul deşeurilor urbane şi industriale, Editura Universul Energiei, pp. 31 – 41, Bucharest, 2005.
- **D.M. Cocârţă**, M. Ragazzi, A. Cemin, A. Badea, T. Apostol, *Particulate matter emissions into the atmosphere: Municipal Solid Waste incineration role*, 3 – 7 October 2005 – "10th International Waste Management and Landfill Symposium, Santa Margherita di Pula (Cagliari), Sardinia, Italia, (CD) 2005 .
- P. Baggio, A. Cemin, **D.M. Cocârţă**, M. Ragazzi, *Considerazioni sull'impatto ambientale delle centrali termoelettriche a turbogas*, Convegno di Igiene Industriale – Le giornate di Corvara 21-23 Martie 2005, Corvara, Bolzano, Italy, (CD) 2005.

Research papers presented and published in proceedings of national conferences:

- **D.M. Cocârţă**, C. Streche, A. Badea, *Evaluarea expunerii rezidențiale la poluarea aerului cu pulberi ambientale într-o zonă urbană / Assessment of residential exposure to fine particles in an urban area*, Conferința Națională Științifică de Toamnă a AOSR - Convergența Reală Romania – Uniunea Europeană "CRUE", 20 - 21 September 2019, Brașov, Universitatea Transilvania din Brașov.
- **D.M. Cocârţă**, *Evaluarea nivelului de concentrații de HAP-uri şi BaP din aer într-o zonă zonă industrială din NE României / Assessment of PAHs and BaP atmospheric concentrations in an industrial area from NE Romania*, Tendințe actuale în exploatarea durabilă a resurselor minerale, Institutul Naţional De Cercetare - Dezvoltare pentru Metale şi Resurse Radioactive ICPMRR Bucureşti & Centrul de Informare Tehnologică Pentru Resurse Minerale CIT CENTIREM, 20 November 2015, Bucharest – Romania.