

## LISTA DE LUCRĂRI

### I. TEZA DE DOCTORAT IN COTUTELA

2009-2012:

- „Analiză critică a proceselor de piroliză și gazeificare aplicate fracțiilor de deșeuri cu potențial energetic crescut”, Nr 3250 MD din 20.02.2013 emisa de Universitatea Politehnica din București
- “Critical Analysis of Pyrolysis and Gasification Applied to Waste Fractions with Growing Energetic Content”, Diploma Doctor, din 31.10.2012 emisa de Universitatea din Trento.

### II. CĂRȚI PUBLICATE

- Cc 1. **G. Ionescu** (Ed.). (2016). Climate Policy: International Perspectives on Greenhouse Gases. Apple Academic Press.
- Cc 2. **G. Ionescu** (Ed.). (2016). Transportation and the Environment: Assessments and Sustainability. Apple Academic Press.
- Cc 3. **G. Ionescu (Ed.). (2016).** Sustainable Food and Beverage Industries: Assessments and Methodologies. Apple Academic Press.

### III. ARTICOLE / STUDII IN EXTENSO PUBLICATE

#### III.1. ARTICOLE/STUDII IN EXTENSO RELEVANTE PENTRU REALIZARILE PROFESIONALE PROPRII

1. E. C. Rada, M. Ragazzi, L. I. Cioca, **G. Ionescu**, E. Ranieri, E. Trulli (2017). *Renewable energy in the Alps: a case study*, Quality - Access to Success, 18(S1), 151, [INDEXAT SCOPUS].
2. V. Torretta and G. Ionescu (2016). *Environmental assessment of the MSW treatment from the transport point of view*. Management of Environmental Quality: An International Journal, 27(4), 419-426, [INDEXAT SCOPUS].
3. **G. Ionescu**, E. C. Rada, L. I. Cioca (2015). *Municipal solid waste sorting and treatment schemes for the maximization of material and energy recovery in a latest EU member*. Environmental Engineering & Management Journal (EEMJ), 14(11) [INDEXAT ISI, WOS:000369099900006, FI: 1.008].

4. E. Argiriadis, E.C. Rada, M. Vecchiato, S. Zambon, **G. Ionescu**, M. Schiavon, M. Ragazzi, A. Gambaro, 2014, *Assessing the influence of local sources on POPs in atmospheric depositions and sediments near Trento (Italy)*, Atmospheric Environment, 98, pp. 32-40. [**INDEXAT ISI, WOS:000345475000005 FI: 3.459**].
5. **G. Ionescu**, E.C. Rada, M. Ragazzi, C. Mărculescu, A. Badea, T. Apostol, 2013, *Integrated Municipal Solid Waste scenario model using advanced pretreatment and waste to energy processes*, Energy Conversion and Management, 76, pp. 1083–1092. [**INDEXAT ISI, WOS:000327576800114, FI: 4.801**].
6. C.C. Stroe, V.N. Panaitescu, M. Ragazzi, E.C. Rada, **G. Ionescu**, 2014, *Some considerations on the environmental impact of highway traffic*, Revista de Chimie, Bucharest, 65(2), pp. 152-155. [**INDEXAT ISI, WOS:000333577400004, FI: 0.956**].
7. S.I. Cioranu, M. Grigoriu, M. Ragazzi, E.C. Rada, **G. Ionescu**, 2014, *Assessment of Alternatives for RMSW Treatment for Valcea County, Romania*, Revista de Chimie, Bucharest, 65 (3), pp. 257-261. [**INDEXAT ISI, WOS:000335294800002, FI: 0.956**].
8. E.C. Rada, M. Ragazzi, **G. Ionescu**, G. Merler, M. Raboni, V. Torretta, F. Moedinger, 2014, *Municipal Solid Waste treatment by integrated solutions: energetic and environmental balances*, The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES14), 10-13 Aprilie 2014, Beirut, Liban, Energy Procedia, 50, pp. 1037-1044. [**INDEXAT ISI, WOS:000345440100123**].
9. M. Ragazzi, E.C. Rada, M. Marconi, A. Chistè, S. Fedrizzi, G. Segatta, M. Schiavon, **G. Ionescu**, *Characterization of the PCDD/Fs in the Province of Trento*, The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES14), 10-13 Aprilie 2014, Beirut, Liban, Energy Procedia, 50, pp. 945-952. [**INDEXAT ISI, WOS:000345440100113**].
10. **G. Ionescu**, P. Stefani, 2014, *Environmental assessment of waste transport and treatment: A case study*. WIT Transactions on Ecology and the Environment, 180, 175-185. [**INDEXAT SCOPUS**].

**III.2. ARTICOLE/STUDII IN EXTENSO, COTATE ISI:**

1. **G. Ionescu**, E. C. Rada, L. I. Cioca (2015). *Municipal solid waste sorting and treatment schemes for the maximization of material and energy recovery in a latest EU member*. Environmental Engineering & Management Journal (EEMJ), 14(11) WOS:000369099900006, **FI: 1.008**.
2. E. Argiriadis, E.C. Rada, M. Vecchiato, S. Zambon, **G. Ionescu**, M. Schiavon, M. Ragazzi, A. Gambaro, 2014, *Assessing the influence of local sources on POPs in atmospheric depositions and sediments near Trento (Italy)*, Atmospheric Environment, 98, pp. 32-40. **FI: 3.459**.
3. **G. Ionescu**, E.C. Rada, M. Ragazzi, C. Mărculescu, A. Badea, T. Apostol, 2013, *Integrated Municipal Solid Waste scenario model using advanced pretreatment and waste to energy processes*, Energy Conversion and Management, 76, pp. 1083–1092. WOS:000327576800114, **FI: 4.801**.
4. C.C. Stroe, V.N. Panaitescu, M. Ragazzi, E.C. Rada, **G. Ionescu**, 2014, *Some considerations on the environmental impact of highway traffic*, Revista de Chimie, Bucharest, 65(2), pp. 152-155, WOS:000333577400004, **FI: 0.956**.
5. S.I. Cioranu, M. Grigoriu, M. Ragazzi, E.C. Rada, **G. Ionescu**, 2014, *Assessment of Alternatives for RMSW Treatment for Valcea County, Romania*, Revista de Chimie, Bucharest, 65 (3), pp. 257-261, WOS:000335294800002, **FI: 0.956**.
6. E.C. Rada, M. Ragazzi, **G. Ionescu**, G. Merler, M. Raboni, V. Torretta, F. Moedinger, 2014, *Municipal Solid Waste treatment by integrated solutions: energetic and environmental balances*, The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES14), 10-13 Aprilie 2014, Beirut, Liban, Energy Procedia, 50, pp. 1037-1044, WOS:000345440100123.
7. *M. Ragazzi, E.C. Rada, M. Marconi, A. Chistè, S. Fedrizzi, G. Segatta, M. Schiavon, G. Ionescu, Characterization of the PCDD/Fs in the Province of Trento*, The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES14), 10-13 Aprilie 2014, Beirut, Liban, , Energy Procedia, 50, pp. 945-952, WOS:000345440100113.

**\*\*M. Ragazzi, S. Fedrizzi, E.C. Rada, G. Ionescu, R. Ciudin, L.I. Cioca, (2017) Experiencing Urban Mining in an Italian Municipality towards a Circular Economy vision International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES17, 21-24 April 2017, Beirut Lebanon, conferință cotate ISI, în curs de Indexare în ISI Web of Science.**

**III.3. ARTICOLE/STUDII IN EXTENSO, PUBLICATE IN REVISTE COTATE SCOPUS:**

1. E. C. Rada, M. Ragazzi, L. I. Cioca, **G. Ionescu**, E. Ranieri, E. Trulli (2017). *Renewable energy in the Alps: a case study*, Quality - Access to Success, 18(S1), 151.
2. V. Torretta and G. Ionescu (2016). *Environmental assessment of the MSW treatment from the transport point of view*. Management of Environmental Quality: An International Journal, 27(4), 419-426.
3. V. Torretta, **G. Ionescu**, M. Raboni, G. Merler, 2014 *The mass and energy balance of an integrated solution for municipal solid waste treatment*, WIT Transactions on Ecology and the Environment, 180, pp. 151-161.
4. **G. Ionescu**, P. Stefani, 2014, Environmental assessment of waste transport and treatment: A case study. WIT Transactions on Ecology and the Environment, 180, 175-185.
5. E.C. Rada, L. Squazardo, **G. Ionescu**, A. Badea, 2014, *Economic viability of srf co-combustion in cement factory*, UPB Scientific Bulletin, Series D: Mechanical Engineering, 76(3), pp. 199-206.
6. R. Patrascu, E. Minciuc, D. Tutica, M. Norisor, **G. Ionescu**, P. Stefani, 2014, *Reducing environmental impact through efficient utilisation of biomass in a cogeneration plant. Case study – Energy supply of an industrial company through biomass utilisation in a cogeneration plant with internal combustion engine*, Calitatea-Acces la Succes, 15 (138), pp. 84-88.
7. V. Torretta, M. Raboni, S. Copelli, E.C. Rada, M. Ragazzi, **G. Ionescu**, T. Apostol, A. Badea, 2014, *Application of strategies for particulate matter reduction in urban areas: an italian case*, Scientific Bulletin - "Politehnica" University Of Bucharest. Series D, Mechanical Engineering, 75(4), pp. 221-229, 2013.
8. **G. Ionescu**, T. Apostol, E.C. Rada, M. Ragazzi, V. Torretta, 2013, *Critical analysis of strategies for PM reduction in urban areas*, Scientific Bulletin - "Politehnica" University of Bucharest. Series C, Chemistry and Material Science, series D, Mechanical Engineering, 75(2), pp. 175-186.
9. C. Mărculescu, **G. Ionescu**, S. Ciută, C. Stan, 2013, *Energetic analysis of meat processing industry waste*, Scientific Bulletin - "Politehnica" University of Bucharest. Series C, Chemistry and Material Science, 75(2), pp. 291-300.
10. R.D. Ionescu, M. Ragazzi, L. Battisti, E.C. Rada, **G. Ionescu**, 2013, *Potential of electricity generation from renewable energy sources in standard domestic houses*, Energy and sustainability IV, Boston: Witt Press, p. 245-253. - ISBN: 9781845647285. ESUS13, Bucharest, 19-21 June 2013
11. M. Ragazzi, V. Torretta, G. Ionescu, I.A. Istrate, 2013, *Maintenance strategies and local impact of MSW incinerators*, Energy and sustainability IV, Boston: Witt Press, pp. 235-244. - ISBN: 9781845647285. ESUS13, Bucharest, 19-21 June 2013.

12. **G. Ionescu**, D. Zardi, W. Tirlir, E.C. Rada, M. Ragazzi, 2012, *A critical analysis of emissions and atmospheric dispersion of pollutants from plants for the treatment of residual municipal solid waste*, Scientific Bulletin - "Politehnica" University of Bucharest. Series D, Mechanical Engineering, 74(4), pp. 227-240.
13. **G. Ionescu**, C. Marculescu, A. Badea, 2011, *Alternative solution for MSW to energy conversion*, Scientific Bulletin - "Politehnica" University of Bucharest. Series C, Electrical Engineering, 73(3), pp. 243-254.

#### **IV. ARTICOLE/STUDII IN EXTENSO, PUBLICATE IN REVISTE/CONFERINTE BDN SI BDI:**

1. M. Ragazzi, **G. Ionescu**, S. Cioranu (2017). *Assessment Of Environmental Impact From Renewable And Non-renewable Energy Sources*. International Journal of Energy Production and Management, 2(1), 8-16.
2. **G. Ionescu**, E. C. Rada, C. Marculescu, *Light Packaging Waste Gasification In A Rotary Kiln Lab-Scale Reactor (2016)*, Sixth International Symposium on Energy from Biomass and Waste, 14 - 17 Noiembrie 2016, Great School of St. John the Evangelist, Venezia, Italia, , autori în cadrul sesiunii E03 Pyrolysis and gasification of different waste (<http://venicesymposium.it/monday-14th---session-e.aspx>)
3. **G. Ionescu**, C. Mărculescu, *Air gasification of mixed waste fractions (2016)*, Huitième Edition du COLLOQUE FRANCOPHONE – COFRET 2016, 29-30 Iunie 2016.
4. **G. Ionescu**, E. C. Rada, M. Ragazzi, V. Torretta, *Waste-to-Energy approach in North part of Italy and Romania*, 14<sup>th</sup> World Renewable Energy Congress , WREC 2015, 8-12 Iunie 2015.
5. **G. Ionescu**, C. Marculescu, E.C. Rada, *Renewable energy from poultry industry using thermo-chemical process strategies for in-situ power generation*, Fifth International Symposium on Energy from Biomass and Waste, San Servolo, Venice - Italy, 17-21 Noiembrie 2014.
6. **G. Ionescu**, E.C. Rada, L. I. Cioca , *MSW sorting and treatment schemes for material and energy recovery maximization in a latest EU member*, ELSEDIMIA International Conference – 18 – 19 September 2014, Cluj-Napoca, Romania, Book of abstracts-ISBN: 978-973-606-526-183-9, p. 69.
7. E.C. Rada, M. Ragazzi, **G. Ionescu**, M. Tubino, W. Tirlir, M. Tava, 2014, *Perspectives of unconventional PCDD/F monitoring for a steel making plant*, A XIV-a Conferința internațională-multidisciplinară, Profesorul Dorin Pavel- fondatorul hidroenergeticii românești, Sebes, Romania, vol .26, pp. 9-18, ISSN 2067-7138,
8. **G. Ionescu**, M. Schiavon, E.C. Rada, M. Ragazzi, C. Stroe, I. Cioranu, V. Panaitescu, P. Stefani, 2013 , *Evolution of the emission performances of MSW collection truck*, in 14th International waste management and landfill symposium, Padova: CISA - Environmental Sanitary Engineering Centre, p. 1-9. -ISBN: 9788862650281, Sardinia, Italy, 30 September- 4 October 2013

9. **G. Ionescu**, S. Ciută, E.C. Rada, M. Ragazzi, 2013, *Biological treatment for energy and compost generation from winery industry wastes*, in 14th International waste management and landfill symposium, Padova: CISA - Environmental Sanitary Engineering Centre, p. 1-8. -ISBN: 9788862650281, Sardinia, Italy,30 September-4 October 2013
10. E.C. Rada, M. Ragazzi, **G. Ionescu**, 2013, *2020 waste targets through SRF production and valorization: an Italian case study* , in 14th International waste management and landfill symposium, Padova: CISA - Environmental Sanitary Engineering Centre, pp. 1-7, -ISBN: 9788862650281, Sardinia, Italy,30 September-4 October 2013
11. **G. Ionescu**, E.C. Rada, M. Ragazzi, S. Ciuta, 2013, *MBT solutions for Romanian MSW management: practical perspectives*, in Mechanical biological waste treatment, material recovery facilities and recycling, Gottingen: CUVILLIER VERLAG, pp. 365-374. - ISBN: 9783954044351. Waste to Resource 2013, Hanover, 11-13 June 2013
12. E.C. Rada, M. Ragazzi, **G. Ionescu**, G. Merler, 2012, *Comparative analysis between two case studies based on the same integrated system for MSW management* in 4th International Conference on Engineering for Waste and Biomass Valorisation, Mines d'Albi, France: [WasteEng], 2012, pp. 1077-1084. - ISBN: 9791091526005. Atti di: WasteEng12, Porto, Portugal, 10-13 September 2012.
13. E.C. Rada, **G. Ionescu**, M. Ragazzi, C. Marculescu, S. Ciuta,2012, *Integrated Municipal Solid Waste System applied to a Romanian metropolitan case-study*, in Sustainable Technology for Environmental Protection, Milano: ANDIS, 2012, pp. [1-4]. - ISBN: 9788890355721. Atti di: SIDISA2012, Milano, 26-29 June 2012
14. **G. Ionescu**, E.C. Rada,2012, *Material and energy recovery in a Municipal Solid Waste System: Practical Applicability* in International Journal of Environment and Resource, 1(1), pp. 26-30.
15. **G. Ionescu**, E.C. Rada, M. Ragazzi, R. Dal Maschio, M. Ischia, C. Mărculescu,2012, *Packaging waste thermal treatment and pyro-products characterization for power conversion*, in 4th International Conference on Engineering for Waste and Biomass Valorisation, Mines d'Albi, France, p. 892-897. - ISBN: 9791091526005, WasteEng12, Porto, Portugal, 10-13 September 2012
16. **G. Ionescu**, E.C. Rada, M. Ragazzi, G. Merler, 2012, *Possibili scenari di sistemi integrati di trattamento rifiuti in Romania*, in rivista ECO, 21(5), pp. 63-66.
17. Vincenzo Torretta, **Gabriela Ionescu**, 2012, *Reliability of Strategic Environmental Assessment for Territorial Management: General Criticisms and a Proposed Approach in the Presence of Relevant Accident Risk Facilities* in International Journal of Environment and Resource, 1 (2), pp. 81-88.
18. E.C. Rada, **G. Ionescu**, G. Bertolotti, S. Gialanella, M. Ragazzi,2012, *Scanning electron microscopy study of light packaging waste from different countries*, in IV International Symposium on Energy from Biomass and Waste, Padova: CISA Publisher, pp. [1-12]. - ISBN: 9788862650069. Atti di: Veince 2012, San Servolo,Venezia, 12 - 15 November 2012.
19. S. Ciuta, E.C. Rada, M. Ragazzi, C. Marculescu, A. Badea, **G. Ionescu**,2012, *Wine making industry wastes biodegradable properties characterization for biogas conversion* in 4th International Conference on Engineering for Waste and Biomass

- Valorisation, Mines d'Albi, France p. 1224-1229. - ISBN: 9791091526005, WasteEng12, Porto, Portugal, 10-13 September 2012.
20. **G. Ionescu**, S. Ciuta, 2011, *Energy analysis of pyrolysis with external heat input from waste packaging fractions* in International Scientific Research and Experimental Development, Paris: WASET, pp. 851-857, World Academy of Science, Engineering and Technology, Paris, 24-26 August, 2011.
  21. F. Modinger, F. Ast, M. Ragazzi, E.C. Rada, S. Ciuta, C. Camprostrini, A. Badea, **G. Ionescu**, 2011, *Exhausted grape marc biodrying: a pilot scale experimentation*, in XIII International Waste Management and Landfill Symposium, Padova: CISA-Environmental Sanitary Engineering Centre, p. [1-6]. - ISBN: 9788862650007, Sardinia 2011, S. Margherita di Pula (Cagliari), 3 - 7 October 2011.
  22. **G. Ionescu**, G. Merler, E.C. Rada, M. Ragazzi, T. Apostol, 2011, *Integrated valorization system of MSW: metropolitan area case study: preliminary results* in 5th International Conference on Energy and Environment, Bucharest: [UPB], 2011, pp. 1-8, CIEM, Bucharest, 3-4 November 2011.
  23. **G. Ionescu**, E.C. Rada, A. Badea, M. Ragazzi, T. Apostol, 2011, *Municipal Solid Waste sorting and treatment in Romania: strategies of energy recovery from two pilot case studies*, in Mechanical biological waste treatment and material recovery facilities, Gottingen: Cuvillier Verlag, 2011, p. 158-166. - ISBN: 9783869557588, Waste-to-Resources 2011: IV International Symposium MBT and MRF, Hannover, 24t -26t May 2011.
  24. **G. Ionescu**, S. Ciuta, A. Badea, M. Ragazzi, E.C. Rada, C. Marculescu, T. Apostol, *Thermal option for energy recovery from two organic substrates: grape and residual sunflower seeds* in Waste management in Developing Countries and Transient Economies, [Thessaloniki]: [Aristotle University of Thessaloniki], 2011, p. 1-7., 1<sup>st</sup> International Conference on W.D.C.T.E., Mauritius, 5-8 September 2011
  25. **G. Ionescu**, A. Badea, M. Ragazzi, E.C. Rada, C. Marculescu, T. Apostol, *Thermal option for enregy recovery from packaging waste*, in Waste management in Developing Countries and Transient Economies, [Thessaloniki]: [Aristotle University of Thessaloniki], 2011, p. 1-8, 1<sup>st</sup> International Conference on W.D.C.T.E., Mauritius, 5-8 September 2011.
  26. A. Badea , **G. Ionescu**, C. Marculescu, 2010, *Estimation of energy recovery potential from packaging paper and plastics waste*, in Recent Advances in Energy and Environment Technologies and Equipment, Bucuresti: WSEAS Press, pp. 244 -247. - ISBN: 9789604741816, EEETE'10, Bucharest, 20-22 April, 2010.
  27. **G. Ionescu**, A. Badea, M. Ragazzi, C. Marculescu, R. Dal Maschio, T. Apostol, M. Ischia, E.C. Rada, 2010, *Scenarios for valorization of packaging waste*, in VENICE 2010, Third International Symposium on Energy from Biomass and Waste, Padova: CISA Publisher, 2010, p. 1-7. - ISBN: 9788862650083, Venice, 8-11 November 2010.
  28. **G. Ionescu**, M. Ischia, T. Apostol, R. Dal Maschio, M. Grigante, M. Baratieri, M. Ragazzi, E.C. Rada, 2009, *Disposal of plastic scraps arising from food and pharmaceutical industry: comparison between direct combustion and pyrolysis processes* in 4th International Conference on ENERGY and ENVIRONMENT, Bucuresti: Politehnica Press, 2009, p. 1-8, CIEM 2009, Bucharest, 12-14 November 2009.

**V. PROIECTE DE CERCETARE-DEZVOLTARE – INOVARE OBTINUTE PRIN COMPETITIE**

*Asigurarea alimentării cu energie în regim continuu printr-un Sistem hibrid Integrat cu utilizarea Deșeurilor cu potențial energetic, surselor Eolone și Fotovoltaice/ Continuous power supply through an integrated hybrid system using wastes with high energetic content, photovoltaic and wind energy, Programul Granturi de Cercetare de Excelenta, Universitatea Politehnica din București UPB–EXCELENȚĂ–2016, Contract number: 90/26.09.2016 (acronim:SIDEF).*

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Semnătura

