# Asistent univ. dr. ing. CRISTINA GHINEA

# Activitate științifică

Teza de doctorat: MODELE DE MANAGEMENT AL DEŞEURILOR ŞI APLICAREA LOR PENTRU MANAGEMENTUL DURABIL AL DEŞEURILOR RECICLABILE

# Lucrări publicate

2017

Cărți

Biodiversitatea mediului, C. Ghinea, Editura Pim, 2017, 180 pag, ISBN 978-606-13-3767-5.

#### Jurnale ISI

Integrating sustainability indicators for tracking anthropogenic pressure on the earth – The footprint family, C. Ghinea, T. Campean, M. Gavrilescu, Environmental Engineering and Management Journal, 16, 935-948, 2017, IF=1.096.

### **ISI Proceedings**

Life cycle environmental impacts of romanian beer production

C. Ghinea, A. Leahu,

17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgemviennagreen.org, SGEM2017 Vienna GREEN Conference Proceedings, ISBN 978-619-7408-28-7 / ISSN 1314-2704, 27 - 29 November, 2017, Vol. 17, Issue 43, 115-122 pp; DOI: 10.5593/sgem2017H/43/S18.015.

Brewer's spent yeast as a potential stimulative agent in rye plantlets

A. Leahu, A. Lobiuc, M. Oroian, C. Ghinea, C. Damian,

17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgemviennagreen.org, SGEM2017 Vienna GREEN Conference Proceedings, ISBN 978-619-7408-28-7 / ISSN 1314-2704, 27 - 29 November, 2017, Vol. 17, Issue 43, 27-34 pp; DOI: 10.5593/sgem2017H/43/S18.004.

### Journale incluse in baze de date, CNCSIS

Assessment of environmental impact of food waste: a case study apple fruits, Cristina Ghinea Food and Environment Safety - Journal of Faculty of Food Engineering, Ştefan cel Mare University - Suceava, Volume XVI, Issue 1- 2017, pag. 21 - 28.

### 2016

### Jurnale ISI

Forecasting Municipal Solid Waste Generation Using Prognostic Tools and Regression Analysis, C. Ghinea, E. N. Dragoi, E.-D. Comanita, M. Gavrilescu, T. Campean, S. Curteanu, M. Gavrilescu, Journal of Environmental Management 182, 80-93, 2016, IF = 4.010.

Costs analysis of municipal solid waste management scenarios: IASI – Romania case study, C. Ghinea, M. Gavrilescu, Journal of Environmental Engineering and Landscape Management, 24, 185-199, 2016, IF= 0.635.

Removal of Erythrosine B dye from water effluents using crop waste pumpkin seed hulls as adsorbent Laura Carmen Apostol, Cristina Ghinea, Madalena Alves, Maria Gavrilescu Desalination and Water Treatment, 57, 22585-22608, 2016, IF= 1.631.

Occurrence of plastic waste in the environment: ecological and health risks
Elena - Diana Comanita, Raluca Maria Hlihor, **Cristina Ghinea**, Maria Gavrilescu **Environmental Engineering and Management Journal**, 15, 675-685, 2016, **IF= 1.096**.

### Journale incluse in baze de date, CNCSIS

Life cycle assessment of organic waste composting, Cristina Ghinea Lucrări Științifice Seria Horticultură, USAMV IAȘI, 59 (1), 225-230, 2016.

### 2015

### Jurnale ISI

Challenges and oportunities in green plastics: An assessment using the ELECTRE decision-aid method Elena-Diana Comaniță, Cristina Ghinea, Raluca Maria Hlihor, Isabela Maria Simion, Camelia Smaranda, Lidia Favier, Mihaela Roşca, Irina Gostin, Maria Gavrilescu

Environmental Engineering and Management Journal, 14, 689-702, 2015. IF=1.008.

### **IEEE Conference Publications**

Environmental impacts of polyvinyl chloride (PVC) production process

Elena-Diana Comaniță, **Cristina Ghinea**, Mihaela Roșca, Isabela Maria Simion, Madalina Petraru, Maria Gavrilescu

E-Health and Bioengineering Conference (EHB), 2015, 19-21 Nov. 2015, 1 – 4, DOI: 10.1109/EHB.2015.7391486.

Evaluation of pentachlorophenol leaching potential in natural soils

Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculet, **Cristina Ghinea**, Maria Gavrilescu E-Health and Bioengineering Conference (EHB), 2015, 19-21 Nov. 2015, 1 – 4, DOI: 10.1109/EHB.2015.7391488.

### Journale incluse in baze de date, CNCSIS

Impacts on climate change generated by polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production: a comparative approach

Comanilă Elena-Diana, Ghinea Cristina, Rosca Mihaela, Smaranda Camelia, Favier Lidia, Gostin Irina, Iordache Stefania, Gavrilescu Maria

LUCRĂRI ȘTIINIIFICE SERIA HORTICULTURĂ, vol. 58(2) / 2015, U.S.A.M.V. IAŞI, 253-260.

Impact of food waste on climate change

Cristina Ghinea, Maria Gavrilescu

Food and Environment Safety - Journal of Faculty of Food Engineering, Ştefan cel Mare University - Suceava, Volume XIV, Issue 4- 2015, pag. 340 - 344.

Assessment of environmental impacts of municipal solid waste management in Iasi, Romania Cristina Ghinea, Andreea Spranceana, Diana Elena Comanita, Gabriela Constantinescu, Maria Gavrilescu

Food and Environment Safety - Journal of Faculty of Food Engineering, Ştefan cel Mare University - Suceava, Volume XIV, Issue 2 - 171 - 180, 2015.

### 2014

### Jurnale ISI

Life Cycle Assessment of waste management and recycled paper systems

**Cristina Ghinea**, Madalina Petraru, Isabela Simion, Dana Sobariu, Hans Th. A Bressers, Maria Gavrilescu

Environmental Engineering and Management Journal, 13, 2073-2085, 2014. IF=1.065.

### Journale incluse in baze de date, CNCSIS

Evaluation of Solid Waste Management Scenarios Using Analytic Hierarchy Process (AHP) Technique Cristina Ghinea, Diana Elena Comanita, Petronela Cozma, Hans Th. A. Bressers, Maria Gavrilescu Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section Issue 60 (3-4), 81-89, 2014.

Multicriteria evaluation of municipal solid waste management scenarios: Case study Iasi, Romania Cristina Ghinea, Hans Th. A. Bressers, Maria Gavrilescu

Food and Environment Safety - Journal of Faculty of Food Engineering, Ştefan cel Mare University - Suceava, Volume XIII, Issue 1, 38-47, 2014.

### 2013

### Jurnale ISI

Municipal solid waste management and treatment of effluents resulting from their landfilling, Ana-Maria Şchiopu, Cristina Ghinea

Environmental Engineering and Management Journal, 12, 1699-1719, 2013. IF = 1.258.

Inter-reggio: concept of restoration projects of local streams

Cristina Ghinea, Maria Gavrilescu

Environmental Engineering and Management Journal, 12, 1735-1746, 2013. IF= 1.258.

Ecological footprint applied in the assessment of construction and demolition waste integrated management

Isabela Maria Simion, **Cristina Ghinea**, Sebastian George Maxineasa, Nicolae Taranu, Alessandra Bonoli, Maria Gavrilescu

Environmental Engineering and Management Journal, 12, 779-788, 2013. IF= 1.258.

Environmental Impact Assessment of High Pressure Water Scrubbing Biogas Upgrading Technology Petronela Cozma, Cristina Ghinea, Ioan Mamaliga, Walter Wukovits, Anton Friedl, Maria Gavrilescu CLEAN – Soil, Air, Water, 41, 917–927, 2013. IF= 1.838.

### Journale incluse in baze de date, CNCSIS

Solid waste recycling for remanufacturing and bioremediation,

Cristina Ghinea, Isabela Maria Simion, Maria Gavrilescu

Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section, Issue 59(2), 35-48, 2013.

### 2012

### Jurnale ISI

Environmental Evaluation of Waste Management Scenarios - Significance of the Boundaries Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu

Journal of Environmental Engineering and Landscape Management, 20, 76-85, 2012. IF=
1.041.

Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators

Maria Emiliana Fortună, Isabela Maria Simion, Cristina Ghinea, Madalina Petraru, Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Daniela Tudorache Fertu, Maria Gavrilescu,

Environmental Engineering and Management Journal, 11, 333-350, 2012. IF= 1.117.

### Journale incluse in baze de date, CNCSIS

Environmental comparison of solid waste management systems: a case study of the cities of lasi Romania and Enschede. Netherlands

Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu,

Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section, Issue 58(1), 105-116, 2012.

### 2011

### Journale incluse in baze de date, CNCSIS

Municipal Solid Waste Management -Environmental Assessment from Life Cycle Perspective Cristina Ghinea, Maria Gavrilescu

**Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering**, 57(1), 87 - 95, 2011.

Analysis of Environmental Impact for Industry Products. Case Study: Paper Manufacturing Madalina Petraru, Cristina Ghinea, Hans Th. A. Bressers, Maria Gavrilescu,

**Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section**, 57(4), 63-74, 2011.

### 2010

### Jurnale ISI

Decision support models for solid waste management-an overview,

Cristina Ghinea, Maria Gavrilescu

Environmental Engineering and Management Journal, 9, 869-880, 2010. IF= 1.435.

### Journale incluse in baze de date, CNCSIS

Models for sustainable waste management

Cristina Ghinea, Maria Gavrilescu

Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering, 56(2), 21 – 36, 2010.

Thermodinamic study of Cd (II) sorption on soil

Raluca Maria Hlihor, Petronela Cozma, **Cristina Ghinea**, Lucian Vasile Pavel, Brandusa Mihaela Robu, Maria Gavrilescu

Lucrări stiințifice. Seria Agronomie, 53, 92 - 95, 2010.

# Lucrări publicate în volume ale Conferințelor și Simpozioanelor

**2010** Prognostic tools for assessment of alternative waste management scenarios

Cristina Ghinea, Maria Gavrilescu

Proceedings 14th International Symposium on Cellulose Chemistry and Technology, 8-10 Septembrie 2010, Iasi, Romania, 214-219.

# Comunicări orale și postere

### Conferințe și Simpozioane Naționale

2016 Ecological footprint of recycled paper, Cristina Ghinea

"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, October 27-28, 2016.

2015

Evaluation of municipal solid waste scenarios with AHP and ELECTRE techniques, **C. Ghinea**, E. D. Comanita, M. Petraru, H. Th. A Bressers, M. Gavrilescu, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference lasi, October 29-31, 2015, Iasi, Romania.

Environmental impacts evaluation of polyhydroxyalkanoates (PHAs) with ReCiPe method, E.-D. Comanita, C. Ghinea, M. Gavrilescu, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, October 29-31, 2015, Iasi, Romania.

2014

Analysis of environmental impacts of municipal solid waste, Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, Maria Gavrilescu, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, 31 October - 1 November, 2014, Iasi, Romania.

Multicriteria analysis applied to bioplastics and bioenergy production from waste, Elena Diana Comaniță, Cristina Ghinea, Camelia Smaranda, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, 31 October - 1 November, 2014, Iasi, Romania.

2011

Environmental comparison of solid waste management systems: a case study of the cities of lasi Romania and Enschede. Netherlands

Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu

National Conference "Days of the Faculty of Chemical Engineering and Environmental Protection", Eighth Edition, "Innovative Materials and Processes", 17-18 November 2011, Iasi, Romania.

Analysis of Environmental Impact for Industry Products. Case Study: Paper Manufacturing Madalina Petraru, **Cristina Ghinea**. Hans Th. A. Bressers, Maria Gavrilescu

National Conference "Days of the Faculty of Chemical Engineering and Environmental Protection", Eighth Edition, "Innovative Materials and Processes", 17-18 November 2011, Iasi, Romania.

2010 Municipal Solid Waste Management -Environmental Assessment from Life Cycle Perspective Cristina Ghinea, Maria Gavrilescu

Days of the "Faculty of Chemical Engineering and Environmental Protection", 17-19 November 2010, Iasi, Romania.

**2009** *Models for sustainable waste management* 

Cristina Ghinea, Maria Gavrilescu

Days of the "Faculty of Chemical Engineering and Environmental Protection", 18-20 November 2009, Iasi, Romania.

### Conferințe și Simpozioane Internaționale

2017

Life cycle environmental impacts of Romanian beer production, Cristina Ghinea, Ana Leahu, 17<sup>th</sup> International Multidisciplinary Scientific GeoConference SGEM 2017, 27-30 November, Viena, Austria.

Brewer's spent yeast as a potential stimulative agent in rye plantlets, Ana Leahu, Andrei Lobiuc, Mircea Oroian, Cristina Ghinea, Cristina Damian, International Multidisciplinary Scientific GeoConference SGEM 2017, 27-30 November, Viena, Austria.

Opportunities for food waste management in the context of circular economy, Cristina Ghinea, The International Conference "Biotechnologies, Present and Perspectives" Seventh Edition, November, 24<sup>th</sup> - 25<sup>th</sup>, 2017, Suceava, Romania.

Sustainability analysis of bioremediation and phytoremediation of persistent inorganic and organic compounds in the environment, Cristina Ghinea, Diana Elena Comanita, Laura Carmen Apostol, Petronela Cozma, Maria Gavrilescu, INTERNATIONAL CONFERENCE NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING, 25-27 October 2017, GALAŢI, ROMANIA.

Evaluation of bioremediation performance for the removal of heavy metals from soils, Elena-Diana Comăniță, Isabela Maria Simion, Cristina Ghinea, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Raluca Maria Hlihor, Maria Gavrilescu, INTERNATIONAL CONFERENCE NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING, 25-27 October 2017, GALAȚI, ROMANIA.

Life cycle assessment of corrugated board packaging, C. Ghinea, E. D. Comanita, M. Gavrilescu, International Scientific Congres, SECTION HORTICULTURE AND ENVIRONMENT ENGINEERING "HORTICULTURE - SCIENCE, QUALITY, DIVERSITY AND HARMONY", 19-20 OCTOBER 2017, IAŞI, ROMANIA.

A life cycle approach on food waste management in the frame of circular economy, **C. Ghinea**, E. D. Comanita, M. Gavrilescu,

The International Conference on Environmental Engineering and Management (ICEEM09), 6-9 September 2017, Bologna, Italy.

Life cycle analysis of processes and products manufactured from production waste based on ecoinnovation and eco-design principles, I. M. Simion, E.-D. Comăniță, P. Cozma, C. Ghinea, T. Câmpean, R. Hlihor, M. Roșca, S. Ghiga, C. Smaranda, M. Gavrilescu The International Conference on Environmental Engineering and Management (ICEEM09), 6 – 9 September 2017, Bologna, Italy.

Evaluation of eco-efficiency by multicriteria decision analyis. Case study of eco-innovated and eco-designed products from reciclable waste, E.-D. Comăniță, I. M. Simion, P. Cozma, C. Smaranda, R. M. Hlihor, C. Ghinea, S. Cecilia Ghiga, M. Roșca, M. Gavrilescu The International Conference on Environmental Engineering and Management (ICEEMO9), 6 – 9 September 2017, Bologna, Italy.

Challenges of circular economy: eco-innovation and eco-design in manufacturing sector, T. Câmpean, R.-M. Hlihor, I. M. Simion, E.-D. Comăniță, P. Cozma, C. Smaranda, M. Roșca, D.-A. Gavrilescu, C. Ghinea, M. Gavrilescu The International Conference on Environmental Engineering and Management (ICEEM09), 6 – 9 September 2017, Bologna, Italy.

Sustainable development appraisal for industrial systems toward circular economy: case study of corrugated board and packaging manufacturing, C. Smaranda, T. Câmpean, C. Ghinea, P. Cozma, T. Măluţan, I. Creţescu, A. C. Puiţel, E.-D. Comăniţă, I. M. Simion, R.-M. Hlihor, D.-A. Gavrilescu The International Conference on Environmental Engineering and Management (ICEEM09), 6 – 9 September 2017, Bologna, Italy.

*Solid waste generation at household level*, A. Catargiu, C.Cusnir, **C. Ghinea**, 4<sup>th</sup> International Conference Geography, Environment and GIS for students and young researchers Targoviste, Romania, May 18-20, 2017.

Development of a composting recipe for food waste, **C. Ghinea**, L. Apostol, AAGRI-FOOD SCIENCES, PROCESSES AND TECHNOLOGIES" - AGRI-FOOD 2017, 11-12 May 2017, Sibiu, Romania.

2016 Life cycle assessment of organic waste composting, C.Ghinea

International Scientific Congres - life sciences, a challenge to the future, October 20-22, 2016, Iasi, Romania.

Comparative evaluation of environmental impacts of plastic production processes using SimaPro software tool for Life Cycle Assessment (LCA)

E.D. Comănită, C. Ghinea, I. Gostin, St. Iordache, A. Bonoli, M. Gavrilescu

**3<sup>rd</sup> International Conference on Chemical Engineering**, November 9-11, 2016, Iasi, Romania.

Reduction of recyclable waste by promoting product ecodesign

T. Câmpean, E.D. Comăniță, I.M. Simion, P. Cozma, C. Smaranda, C. Ghinea, M. Gavrilescu 3<sup>rd</sup> International Conference on Chemical Engineering, November 9-11, 2016, Iasi, Romania.

Evaluation of organic food waste environmental impacts as substrate source for biopolymers production, C. Ghinea, E. D. Comăniță, M. Gavrilescu

CISA 2016, International Conference of Applied Sciences, June 2-4, 2016, Bacau, Romania

Polyvinyl chloride (PVC) vs. polyhydroxyalkanoates (PHA<sub>s</sub>) production processes - a comparative life cycle assessment using simapro software

E. D. Comăniță, C. Ghinea, R. E. Turculet, I. Simion, R. Spinelli, S. Zanni, F. Lalli, A. Bonoli, Ş. Iordache, M. Gavrilescu

CISA 2016, International Conference of Applied Sciences, June 2-4, 2016, Bacau, Romania

Evaluation of polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production processes with analytic network process technique

Elena Diana Comanita, **Cristina Ghinea**, Maria Gavrilescu, **11<sup>th</sup> International Conference on** "Environmental legislation, Safety Engineering and Disaster Management" ELSEDIMA 26 - 28 May 2016, Cluj-Napoca, Romania

Population perception on reduce, reuse and recycling of household solid waste

Cristina Ghinea, Elena Diana Comanita, Maria Gavrilescu, 11<sup>th</sup> International Conference on "Environmental legislation, Safety Engineering and Disaster Management" ELSEDIMA 26 - 28 May 2016, Cluj-Napoca, Romania

Evaluation of environmental impacts generated by biodiesel production from soybean Cristina Ghinea

 $\mathbf{3}^{\text{rd}}$  International Conference Geography, Environment and GIS for students and young researchers

Targoviste, Romania, May 19-21, 2016

Evaluation of the environmental impacts of polyhydroxyalkanoates (PHAs) using ReCiPe and Eco-Indicator 99 methods, E.-D. Comanita, C. Ghinea, M. Rosca, M. Gavrilescu, 2nd CommScie International Conference "Challenges for Sciences and Society in Digital Era", laṣi, December 4 th – 5th, 2015. Impact of food waste on climate change, Cristina Ghinea, Maria Gavrilescu
International Conference "Biotechnologies, Present and perspectives" —
VI<sup>th</sup> Edition, November 27<sup>th</sup>, 2015 Faculty of Food Engineering, Stefan cel Mare University of Suceava, Romania

Environmental impacts of polyvinyl chloride (PVC) production process, Elena-Diana Comanită, Cristina Ghinea, Mihaela Roşca, Isabela Maria Simion, Madalina Petraru, Maria Gavrilescu, IEEE International Conference E-Health and Bioengineering - "EHB 2015", November 19-21, 2015, Iasi, Romania.

Evaluation of Pentachlorophenol Leaching Potential in Natural Soils, Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculet, Cristina Ghinea, Maria Gavrilescu, IEEE International Conference E-Health and Bioengineering - "EHB 2015", November 19-21, 2015, Iasi, Romania.

Impacts on climate change generated by polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production: a comparative approach, Elena-Diana Comanita, Cristina Ghinea, Mihaela Rosca, Lidia Favier, Irina Gostin, Stefania Iordache, Maria Gavrilescu, International Research Congres - Soil and food resources for a healthy life, October 22-24, 2015, Iasi, Romania.

Forecasting Municipal Solid Waste Generation Using Prognostic Tools and Regression Analysis, Cristina Ghinea, Elena Niculina Dragoi, Elena-Diana Comanita, Silvia Curteanu, Maria Gavrilescu, 8<sup>th</sup> International Conference on Environmental Engineering and Management – ICEEM 08, September 9 – 12, 2015, Iasi, Romania.

Comparative Evaluation of Petroleum-Based Polyvinyl Chloride (PVC) vs. Biologically-Based Polyhydroxyalkanoates (PHAs) by Life Cycle Assessment (LCA), Elena-Diana Comanita, Cristina Ghinea, Camelia Smaranda, Lidia Favier, Irina Gostin, Stefania Iordache, Maria Gavrilescu, 8<sup>th</sup> International Conference on Environmental Engineering and Management – ICEEM 08, September 9 – 12, 2015, Iasi, Romania.

Estimation of Volatile Organic Compounds from Road Traffic and their Risk to Human Health in an Urban Area, Mihaela Rosca, Raluca Maria Hlihor, Elena Diana Comanita, Isabela Maria Simion, Cristina Ghinea, Maria Gavrilescu, 8<sup>th</sup> International Conference on Environmental Engineering and Management – ICEEM 08, September 9 – 12, 2015, Iasi, Romania.

Environmental Impact of Polyhydroxyalkanoates (PHAs) using Life Cycle Assessment (LCA)
- E.D. Comanita, C. Ghinea, I. Gostin, M. Gavrilescu, 19<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015 Sibiu, Romania.

Evaluation of Environmental Impacts Generated by Some Municipal Solid Waste Management Systems with Recipe Method - C. Ghinea, E.D. Comanita, M. Rosca, M. Gavrilescu, 19<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015 Sibiu, Romania.

Recover paper value for resource conservation and chemicals production, **Cristina Ghinea**, Madalina Petraru, Isabela Maria Simion, Adrian Catalin Puitel, Maria Gavrilescu, Hans Bressers, Dan Alexandru Gavrilescu, **6**<sup>th</sup> **European Bioremediation conference**, June 29 - July 2, 2015, Chania, Crete, Greece.

### 2014

Evaluation of solid waste management scenarios using analytic hierarchy process (AHP) technique, Cristina Ghinea, Elena Diana Comaniță, Madalina Petraru, Petronela Cozma, Maria Gavrilescu, 2<sup>nd</sup> International Conference on Chemical Engineering Innovative Materials and Processes, 5-8 November 2014, Iasi, Romania.

A comparative life cycle assessment of three types of agricultural waste applied for Cd(II) biosorption, Raluca Maria Hlihor, Isabela Maria Simion, Cristina Ghinea, Elena Diana Comanita, Laura Carmen Apostol, Petronela Cozma, Maria Gavrilescu, 2<sup>nd</sup> International Conference on Chemical Engineering Innovative Materials and Processes, 5-8 November 2014, Iasi, Romania.

Challenges and opportunities in green plastics: An assessment using the ELECTRE decision-aid method, Elena Diana Comaniță, Raluca Maria Hlihor, Cristina Ghinea, Isabela Maria Simion, Camelia Smaranda, Lidia Favier, Maria Gavrilescu, 2<sup>nd</sup> International Conference on Chemical Engineering Innovative Materials and Processes, 5-8 November 2014, Iasi, Romania.

Risk assessment of municipal solid waste landfilling, Cristina Ghinea, Diana Elena Comanita, Isabela Maria Simion, Petronela Cozma, Maria Gavrilescu, Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7 June, 2014 Bacau, Romania.

Occurrence of plastic waste in the environment: ecological and health risks,
Elena - Diana Comanita, Raluca Maria Hlihor, **Cristina Ghinea**, Maria Gavrilescu

Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7

June, 2014, Bacau, Romania.

### 2013

Life Cycle Assessment of Waste Management and Recycled Paper Systems, Cristina Ghinea, Madalina Petraru, Isabela Simion, Dana Sobariu, Hans Th. A Bressers, Maria Gavrilescu, **7**<sup>th</sup> International Conference on Environmental Engineering and Management Integration Challenges for Sustainability, 18 – 21 September 2013, Vienna, Austria.

Evaluation of Environmental Impacts for Cd(II) Biosorption on Pumpkin Seed Hulls using Life Cycle Assessment, Raluca Maria Hlihor, Cristina Ghinea, Dana Sobariu, Isabela Teslaru, Laura Carmen Apostol, Petronela Cozma, Laura Bulgariu, Maria Gavrilescu, 7<sup>th</sup> International Conference on Environmental Engineering and Management Integration Challenges for Sustainability, 18 – 21 September 2013, Vienna, Austria.

### 2012

Environmental assessment of recyclable materials using life cycle assessment and multicriteria evaluation, Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu, Centenary of Education in Chemical Engineering, Faculty of Chemical Engineering and Environmental Protection, 28-30 November 2012, Iasi, Romania.

Integrated multi-criteria decision-making methodology for assessing the sustainability of paper production scenario, Madalina Petraru, **Cristina Ghinea**, Hans Th. A. Bressers, Maria Gavrilescu, **Centenary of Education in Chemical Engineering**, Faculty of Chemical Engineering and Environmental Protection, 28-30 November 2012, Iasi, Romania.

Environmental and economic evaluation of management systems for municipal solid waste Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu Global Conference on Global Warming-2012 (GCGW-12), 8-12 July, 2012 Istanbul, Turkey.

Evaluation of the contribution of the raw materials used in paper production to global warming, Madalina Petraru, Cristina Ghinea, Hans Th. A. Bressers, Maria Gavrilescu Global Conference on Global Warming-2012 (GCGW-12), 8-12 July, 2012 Istanbul, Turkey.

Environmental assessment of municipal solid waste management systems using LCA and multicriteria evaluation

**Cristina Ghinea**, Madalina Petraru, Hans Th. A. Bressers, Maria Gavrilescu **International Conference "20<sup>th</sup> European Biomass Conference & Exhibition 2012"**, 18-22 June 2012, Milan, Italy.

Analysis of the Environmental Impact of Water Scrubbing Technology Applied for Biogas Upgrading Based on LCA Methodology

Petronela Cozma, Walter Wukovits, **Cristina Ghinea**, Ioan Mamaliga, Anton Friedl, Maria Gavrilescu **International Conference "20th European Biomass Conference & Exhibition 2012"**, 18-22 June 2012, Milan, Italy.

## 2011 Waste management and recovery of fibres – the impact on climate change

Cristina Ghinea, Madalina Petraru, Maria Gavrilescu, Hans Bressers, IGS-SENSE Conference Resilient Societies - Governing Risk and Vulnerability for Water, Energy and Climate Change, 19-21 October 2011, University of Twente, Enschede, The Netherlands.

Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators

Maria Fortună, Isabela Teslaru Simion, Cristina Ghinea, Madalina Petraru, Laura Carmen Fasolă Apostol, Raluca Maria Hlihor, Maria Gavrilescu

"6th International Conference on Environmental Engineering and Management - GREEN FUTURE", 1-4 September 2011, Lake Balaton, Hungary.

**2010** Thermodinamic study of Cd (II) sorption on soil

Raluca Maria Hlihor, Petronela Cozma, **Cristina Ghinea**, Lucian Vasile Pavel, Brandusa Mihaela Robu, Maria Gavrilescu

International Conference "Durable Agriculture-Present and Perspectives", "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania, 21-23 October 2010

Prognostic tools for assessment of alternative waste management scenarios

Cristina Ghinea, Maria Gavrilescu

The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology, Faculty of Chemical Engineering and Environmental Protection, 8-10 Septembrie 2010, Iasi, Romania.

# Conferințe, membru în comitetele de organizare

2017 Conferința internațională "Biotechnologies, Present and Perspectives", Seventh Edition, 24-25 Noiembrie 2017, Facultatea de Inginerie Alimentară, Universitatea Ștefan cel Mare din Suceava, Romania.

Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Workshop, Member of the organizing committee

PN-II-ID-WE-2012-4-062, contract 60/16.08.2012.

# Book reviews - publicate in jurnale ISI

2014

Sustainable resource development, Gary M. Zatzman

Cristina Ghinea, Maria Gavrilescu

Environmental Engineering and Management Journal, 13, 491-492, 2014.

2013

Encyclopedia of environmetrics, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 1 Cristina Ghinea, Maria Gavrilescu

**Environmental Engineering and Management Journal**, 12, 1109-1112.

Encyclopedia of environmetrics, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 2 Cristina Ghinea, Maria Gavrilescu

**Environmental Engineering and Management Journal**, 12, 1113-1116.

*Encyclopedia of environmetrics*, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 3 **Cristina Ghinea**, Maria Gavrilescu

**Environmental Engineering and Management Journal**, 12, 1301-1304.

Encyclopedia of environmetrics, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 4 Cristina Ghinea, Maria Gavrilescu

Environmental Engineering and Management Journal, 12, 1305-1308.

Encyclopedia of environmetrics, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 5 Cristina Ghinea, Maria Gavrilescu

**Environmental Engineering and Management Journal**, 12, 1521-1523.

Encyclopedia of environmetrics, Abdel H. El-Shaarawi, Walter W. Piegorsch, Second Edition, Volume 6 Cristina Ghinea, Maria Gavrilescu

**Environmental Engineering and Management Journal**, 12, 1525-1527.

### Premiul pentru cel mai bun poster

Environmental and economic evaluation of management systems for municipal solid waste, **Cristina Ghinea**, Madalina Petraru, Hans Bressers, Maria Gavrilescu, *Global Conference on Global Warming – GCGW 2012*, 8-12 July 2012, Istanbul, Turkey.

**Premiu CNCSIS** pentru articolul intitulat *Environmental Impact Assessment of High Pressure Water Scrubbing Biogas Upgrading Technology*, authors Petronela Cozma, **Cristina Ghinea**, Ioan Mamaliga, Walter Wukovits, Anton Friedl, Maria Gavrilescu, cod de inregistrare PN-II-RU-PRECISI-2014-8-6635.

**Premiu CNCSIS** pentru articolul intitulat Forecasting municipal solid waste generation using prognostic tools and regression analysis authors: **Ghinea C.**, Dragoi E.N., Comanita E.D., Gavrilescu M., Campean T., Curteanu S., Gavrilescu M., cod de inregistrare PN-III-P1-1.1-PRECISI-2016-12825.

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asistent univ. dr. ing. Cristina Ghinea

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