

CURRICULUM VITAE: JACOPO BACENETTI

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PERSONAL INFORMATION

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I. EDUCATION AND TRAINING

2007-2010 - Ph.D Student enrolled at the Doctoral School “Technological Innovations for Agricultural, Food and Environmental Sciences” which lies in the Department of Agricultural Engineering (University of Milan).

Research topics: 1) Analysis of economic, energetic and environmental sustainability of the most important Italian agro-energy chains. 2) Development of a software tool to assess the “comprehensive sustainability” of Renewable Energy by farms, in order to make a comparison between different agro-technical solutions.

2005-2007 - Second level Degree in “Sciences of Crop Production and Protection” (full graduation grade with honor, 110/110 cum laude), Faculty of Agriculture, University of Milan. Via Celoria 2, 20133, Milano, Italy.

2000-2005 - First level Degree in “Crop Production” (full graduation grade with honor, 110/110), Faculty of Agriculture, University of Milan. Via Giovanni Celoria 2, 20133, Milano, Italy.

II. ACADEMIC EXPERIENCE IN ITALY

2017 - Present - Researcher on fixed term (letter A) at the Department of Environmental and Policy Science, University of Milan. SSD AGR 09 - Agricultural Mechanics

2016 - 2017 - Researcher on fixed term (letter A) at the Department of Agricultural and Environmental Sciences, University of Milan. SSD AGR 09 - Agricultural Mechanics

2010 - 2016 - post-doctoral follower at the Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, University of Milan. Postdoctoral Research Fellowship financed by University of Milan, Regione Lombardia and the European Social Fund. Research topics: Evaluation using Life Cycle Assessment methodology of the environmental burdens of agricultural processes.

III. ACADEMIC EXPERIENCE ABROAD

04/2010 - 09/2010 - Department of Energy and Technology, Swedish University of Agricultural Sciences, 75007 Uppsala (Sweden) Ulls väg 30. Research topic: Analysis of energetic and environmental sustainability of Short Rotation Forestry in Sweden by means of LCA approach.

07/2013 - 08/2013 - Department of Chemical Engineering, School of Engineering. University of Santiago de Compostela. Rúa Lope Gómez de Marzoa s/n. 15782 Santiago de Compostela. (Spain) Research topic: Evaluation of environmental performance of electricity generation from anaerobic digestion of agricultural feedstock.

March 2017 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the **Department of Chemical Engineering - Universidad de Santiago de Compostela** within the framework of two subjects “Gestion ambiental” and “Ingenieria Ambiental” (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: “Environmental impact assessment of electricity produced from biogas in Italy”.

February 2018 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the **Department of Chemical Engineering - Universidad de Santiago de Compostela** within the framework of two subjects “Gestion ambiental” and “Ingenieria Ambiental” (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: “Life cycle assessment of electricity from woody biomass”.

March 2017 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the **Department of Chemical Engineering - Universidad de Santiago de Compostela** within the framework of two subjects “Gestion ambiental” and “Ingenieria Ambiental” (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: “Comparison among different dietary patterns”.

IV. OTHER ACADEMIC APPOINTMENTS

2016 - today Founding Member of the “Agrifood LCA Laboratory” (https://sites.unimi.it/agrifood_lcalab/), University of Milano, Italy.

2018 - today Member of the Board for the PhD program in “Environmental sciences” (<https://www.environsci.unimi.it/board.php>), University of Milano, Italy.

V. PARTECIPATION AT NATIONAL AND EUROPEAN PROJECTS

EU Project as Principal Investigator and/or Unit leader

2019 - 2022. SIMTAP EU project (PRIMA Call - Section 2 - <https://primaobservatory.unisi.it/en/projects/simtap-self-sufficient-integrated-multi-trophic-aquaponic-systems-for-improving-food-production-sustainability-and->

[brackish-water-use-and-recycling](#)), I am enrolled as leader for UNIMI and I am responsible of the activities focused on LCC and SLCA of different systems for in-land aquaculture production. The project started on June 2019 and will be finished in May 2022. Funded allocated: 111.000 €

EU Project as Participant

2018-2021. LIFE Project (ARIMEDA - Ammonia emission reduction in Mediterranean agriculture with innovative slurry fertigation techniques).

2019-2022. LIFE MEGA - Smart computing system to monitor and abate the indoor concentrations of NH₃, CH₄ and PM in pig farms).

National Project as Principal Investigator and/or Unit leader

2020-2021 - BESTsomRICE - Messa a punto di un protocollo di gestione della sommersione in risaia per la riduzione delle emissioni di gas ad effetto serra. Regione Lombardia - OPERAZIONE 1.2.01 “Progetti dimostrativi e azioni di informazione” MISURA/AZIONE PSL E 1.2.01 - “Limitazione dell’impatto climalterante della risicoltura”

National Project as Participant

2012-2014. PRIN 2012. LLHS: “Long Life, High Sustainability” - Shelf Life Extension come indicatore di sostenibilità”

2018-2020. PSR - Regione Lombardia - MISURA 16 “Cooperazione” - SOTTOMISURA 16.2 - “Progetti pilota e sviluppo di innovazione”. App-iDaiS - App for DAIRySustainability

VI. MAIN CONSULTANT ACTIVITIES

- **2018- present**, Consultants for the National Centre of Science and Technology Evaluation, Kazakhstan
- **2018- 2019.** CAI Agromecc (Confederazione Italiana Agromeccanici e Agricoltori Italiani), comparison between the sustainability of soil tillage operation performed by farmers or by contractors (total funds: 10000 €).
- **2017 - 2019**, Riso Gallo Spa, 3 activities mainly focused on the environmental impact assessment of rice production process in Italy. (total funds: 14800 €).
- **2018 - 2019.** Consorzio italiano vivaisti (CIV), Environmental impact assessment of different varieties of strawberry and apple (total funds: 11000 €).
- **2018 -** Repossi Macchine Agricole Srl, 1 activity focused on the eco-design of a novel double-wheel rake for haymaking (total funds: 17500 €).
- **2018 -** Rota Guido Spa, assessment of the environmental impact of different devices for ammonia and PM emission reduction in pig barns (total funds: 19500 €).
- **2018 -** D’Alesio&Santoro S.r.l, Life cycle assessment of MEG (Micro Experimental Growing (total funds: 5000 €),

- **2018** - Design Group Italia I.D. S.r.l, Comparison between different lighting systems for supermarket (total funds: 5500 €).
- **2014** - Consultant for Celim (Centro Laici Italiani per le Missioni) in the Project “SUSTAINABLE AGRICULTURAL DEVELOPMENT - Reinforcement of agricultural and food chain of production of mountain and rural communities” regarding the development of Renewable Energy Sources in the five Albanian Centers for Technology Transfer in Agriculture.

VII. TEACHING ACTIVITIES

- **2019 - present** Course “Environmental impact analysis of agricultural systems” (*Master degree*) held in Milano (MI) at the *University of Milan* in the master degree course in “Biotechnology for Bioeconomy”.
- **2019** - Approcci per la valutazione della sostenibilità ambientale - Approches for the environmental sustainability assessment (6 hours, *Doctorate School* in Environmental Science)
- **2019** - The methodology of Life Cycle Assessment (LCA) in the food chain (6 hours, *Doctorate School* in Food Science)
- **2018 - present** Course “Life cycle assessment” (*Master degree*) held in Milano at the *University of Milan* in the master degree course in “Environmental Food and Economics”.
- **2018 - present** Course “Environmental impact analysis of agricultural systems” (*Master degree*) held in Milano (MI) at the *University of Milan* in the master degree course in “Agricultural Sciences”.
- **2017** - Course “Renewable Energies in Mountain Areas” (*Bachelor degree*) held in Edolo (BS) at the *University of Milan* in the degree course in “Conservation and sustainable development of mountain areas”.
- **2015 - 2017** - Course ITS “Tecnico superiore responsabile delle produzioni e delle trasformazioni agrarie, agroalimentari e agroindustriali” held by *Fondazione ENAIP* and *Regione Lombardia* at the Parco Tecnologico Padano in Lodi.
- **2014** - Teacher at the Master RIDEF 2.0 Reinventare l’Energia held in Milano by the *Politecnico of Milan*.
- **2011** - Course “Use of energy resources in agriculture” (Uso delle risorse energetiche in agricoltura) held in Edolo (BS) at the *Faculty of the Mountain - University of Milan* in the degree course in “Conservation and sustainable development of mountain areas”.
- **2010 - Present** - Master in “Energy and bio-products from biomass - Sustainable management of the chain and of the production processes” (Energia e Bioprodotto da biomassa - Gestione sostenibile delle filiere e dei processi produttivi) held in Milano by the *Institute of Agricultural Biology and Biotechnology* of the *Italian National Council* (CNR)
- **2009 - today** - Assistant supervisor of several BSc and MSc thesis focused on agricultural mechanic (2 BSc and 5 MSc), renewable energy production in agriculture (1 BSc and 5 MSc) and life cycle assessment application to agricultural systems (2 BSc and 8 MSc).

VIII. EDITORIAL ACTIVITY

- Associate Editor of **Cleaner Environmental Systems** (ISSN 2666-7894, <https://www.journals.elsevier.com/cleaner-environmental-systems/>) from 2020
- Section Editor-in-Chief of **Agriculture** section “Ecosystem, Environment and Climate Change in Agriculture” ISSN 2077-0472, https://www.mdpi.com/journal/agriculture/sectioneditors/Ecosystem_environment_climate_change_agriculture) from 2020
- Associate Editor of **Current Opinion in Environmental Science & Health** (<https://www.journals.elsevier.com/current-opinion-in-environmental-science-and-health/editorial-board>) (ISSN 2468-5844) from 2019
- Editorial Board Member of **Sustainability** section **Sustainable Food** (https://www.mdpi.com/journal/sustainability/sectioneditors/food_sust). From 2019
- Associate Editor of **Agriculture** (<http://www.mdpi.com/journal/agriculture/editors>) (ISSN 2077-0472, Scopus ID: <https://www.scopus.com/sourceid/21100781511?origin=sbrowse>) from 2018
- **Guest Editor** for the special volume “Economic and Environmental Impact Assessment of Renewable Energy from Biomass” of **Sustainability**.
- **Guest Editor** for the special volume “Agricultural and forest biomass for food, materials and energy: Bio-economy as the cornerstone to cleaner production and more sustainable consumption patterns for accelerating the transition towards equitable, sustainable, post fossil-carbon societies” of **Journal of Cleaner Production**.
- **Guest Editor** for the special volume “Agriculture Machinery for a Sustainable and Efficient Mechanization” a special issue of **Agriculture** (ISSN 2077-0472) (http://www.mdpi.com/journal/agriculture/special_issues/agriculture_machinery)
- Collaborator of the following technical journals **Terra e Vita** (ISSN 0040-3776) (<http://terraevita.edagricole.it/>), “**Macchine Agricole**” (ISSN 1827-3734) (<http://www.tecnichenuove.com/macchine-agricole.html>), “**Vino, Vite e Qualita**” (ISSN 1825-6082) (<http://www.vigneviniequalita.it/>), and “**Intersezioni**” (ISSN 2280-689X) (<http://www.intersezioni.eu/>), “**Mondo Macchine - Machinery Word**” (<https://www.mondomacchina.it/it/index.php>), **Il contoterzista** (<https://contoterzista.edagricole.it/>). with the publication of more than 65 articles.
- Reviewer for ELSEVIER® Global Book Production regarding book proposals in the field of Renewable Energies and Sustainability Assessment.
- Reviewer for the following international scientific journals:

2012 - current

1. Ecological Indicators;
2. Resources, Conservation & Recycling;

2013 - current

3. Journal of Cleaner Production;
4. Science of the Total Environment,
5. Food Control,
6. Environmental Science & Technology,

2014 - current

7. Industrial Crops and Products,
8. Agricultural Systems,
9. European Journal of Agronomy,
10. Integrated Environmental Assessment and Management,
11. Sustainability,
12. Applied Energy;

2015 - current:

13. Biomass and Bioenergy,
14. Waste and Biomass Valorization;
15. Ingegneria per l'Ambiente;
16. Journal of Integrative Agriculture;
17. GCB Bioenergy

2016 - current:

18. Biosystems Engineering;
19. Information Processing in Agriculture;
20. Water Resources and Industry
21. Energy
22. Journal of Environmental Management
23. Measurement
24. Biochemical Engineering Journal
25. Journal of Agricultural Engineering
26. International Journal of Environmental Science and Technology
27. International Journal of Hydrogen Energy
28. Waste management
29. International Journal of Life Cycle Assessment
30. Carbon management
31. Renewable Energy
32. Pedosphere
33. Environmental and Management Engineering Journal

2017 - current:

- 34. Biofuels, Bioproducts & Biorefinering
- 35. Bioresource Technology
- 36. Journal of Food Engineering

2018 - current:

- 37. BioResources
- 38. Environmental Science and Pollution Research
- 39. Scientia Agricola
- 40. Agronomy Research
- 41. Agricultural and Food Economics
- 42. Environmental Progress & Sustainable Energy
- 43. Sustainable Production and Consumption

2019 - current:

- 44. Land Use Policy
- 45. Fuel
- 46. Clean Energy Journal
- 47. Trends in Food Science & Technology
- 48. Environmental Pollution

2020 - current:

- 49. Cleaner Environmental Systems
- 50. Environmental Modelling and Software
- 51. Journal of Industrial Ecology
- 52. Atmospheric pollution research

2021 - current:

- 53. Environment, Development and Sustainability
- 54. International Journal of Plant Production

IX. MEMBERSHIPS

2013 - today Member of “Rete Italiana LCA” the Italian Network of LCA Scientists and Practitioners

2013 - 2014 Member of “SDEWES - International Centre for Sustainable Development of Energy, Water and Environment Systems”.

2014 - today Member of “AIIA - Italian Society of Agricultural Engineering”.

X. PUBLICATIONS (2006-today)

h-index: 31

Citations: > 2100

(Scopus <https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=43961010800&zone=>)

<i>Scientific publications in journals with Impact Factor (IF)</i>	<i>Scientific publications in Scopus journals without IF</i>	<i>Book Chapters</i>	<i>Conferences, workshops and symposia</i>	<i>Publication in technical journals</i>
84	15	6	>20	> 70

Scientific publications in journals with Impact Factor (IF)

1. Zoli
2. Manzardo
3. XXX
4. Costantini, M., Ferrante, V., Guarino, M., & **Bacenetti, J.** (2021). Environmental sustainability assessment of poultry productions through life cycle approaches: A critical review. *Trends in Food Science & Technology*.
- 5.
6. Costantini, M., Vázquez-Rowe, I., Manzardo, A., & **Bacenetti, J.** (2021). Environmental impact assessment of beef cattle production in semi-intensive systems in Paraguay. *Sustainable Production and Consumption*, 27, 269-281.
7. Bernardi, B., Falcone, G., Stillitano, T., Benalia, S., **Bacenetti, J.**, & De Luca, A. I. (2020). Harvesting system sustainability in Mediterranean olive cultivation: Other principal cultivar. *Science of The Total Environment*, 142508.
8. Costantini, M., **Bacenetti, J.**, Coppola, G., Orsi, L., Ganzaroli, A., & Guarino, M. (2020). Improvement of human health and environmental costs in the European Union by air scrubbers in intensive pig farming. *Journal of Cleaner Production*, 275, 124007.
9. Coppola, G., Costantini, M., Orsi, L., Facchinetti, D., Santoro, F., Pessina, D., & **Bacenetti, J.** (2020). A Comparative Cost-Benefit Analysis of Conventional and Organic Hazelnuts Production Systems in Center Italy. *Agriculture*, 10(9), 409.
10. Costantini, M., Lovarelli, D., Orsi, L., Ganzaroli, A., Ferrante, V., Febo, P., ... & **Bacenetti, J.** (2020). Investigating on the environmental sustainability of animal products: The case of organic eggs. *Journal of Cleaner Production*, 274, 123046.
11. Lovarelli, D., Conti, C., Finzi, A., **Bacenetti, J.**, & Guarino, M. (2020). Describing the trend of ammonia, particulate matter and nitrogen oxides: The role of livestock activities in northern Italy during Covid-19 quarantine. *Environmental research*, 191, 110048.
12. **Bacenetti J.** (2020). Economic and Environmental Impact Assessment of Renewable Energy from Biomass. *Sustainability - ISSN 2071-1050*. - 12(2020), pp. 1-5.

13. Parolini, M., Ganzaroli, A., & **Bacenetti, J.** (2020). Earthworm as an alternative protein source in poultry and fish farming: Current applications and future perspectives. *Science of The Total Environment*, 734, 139460.
14. **Bacenetti J.** (2020). Editorial overview: Water-energy-food nexus. *Current Opinion in Environmental Science & Health* 13, A1-A4
15. Lovarelli, D., **Bacenetti, J.**, & Guarino, M. (2020). A review on dairy cattle farming: Is precision livestock farming the compromise for an environmental, economic and social sustainable production?. *Journal of Cleaner Production*, 121409.
16. Orlando, F., Alali, S., Vaglia, V., Pagliarino, E., **Bacenetti, J.**, & Bocchi, S. (2020). Participatory approach for developing knowledge on organic rice farming: Management strategies and productive performance. *Agricultural Systems*, 178, 102739.
17. Zucali, M., Lovarelli, D., Celozzi, S., **Bacenetti, J.**, Sandrucci, A., & Bava, L. (2020). Management options to reduce the environmental impact of dairy goat milk production. *Livestock Science*, 231, 103888.
18. **Bacenetti, J.**, Paleari, L., Tartarini, S., Vesely, F. M., Foi, M., Movedi, E., ... & Amicizia, F. (2020). May smart technologies reduce the environmental impact of nitrogen fertilization? A case study for paddy rice. *Science of The Total Environment*, 715, 136956.
19. Lovarelli, D., Garcia, L. R., Sánchez-Girón, V., & **Bacenetti, J.** (2020). Barley production in Spain and Italy: Environmental comparison between different cultivation practices. *Science of The Total Environment*, 707, 135982.
20. Oquendo-Di Cosola V., Olivieri F., Ruiz-García L., **Bacenetti J.** (2020) An environmental Life Cycle Assessment of Living Wall Systems. *Journal of Environmental Management*, 254.
21. Conti C., Guarino M., Bacenetti J. (2020) Measurements techniques and models to assess odor annoyance: A review. *Environment International*, 134.
22. Conti, C., Bacenetti, J., & Tedesco, D. (2019). Earthworms for Feed Production from Vegetable Waste: Environmental Impact Assessment. *Environmental Engineering & Management Journal (EEMJ)*, 18(10).
23. Lovarelli D., **Bacenetti J.** (2019) Exhaust gases emissions from agricultural tractors: State of the art and future perspectives for machinery operators. *Biosystems Engineering*, 186: 204-213.
24. Tedesco D., Conti C., Lovarelli D., Biazzi E., **Bacenetti J.** (2019) Bioconversion of fruit and vegetable waste into earthworms as a new protein source: The environmental impact of earthworm meal production. *Science of The Total Environment*, 683, 690-69.
25. **Bacenetti, J.**, (2019), Heat and cold production for winemaking using pruning residues: environmental impact assessment. *Applied Energy*, 252,
26. De Marchi E., Cavaliere A., **Bacenetti J.**, Milani F., Pigliafreddo S., Banterle A. (2019). Can consumer food choices contribute to reduce environmental impact? The case of cisgenic apples. *Science of The Total Environment*, 681, 155-162,
27. Valiante D., Sirtori I., Cossa S., Corengia L., Pedretti M., Cavallaro L., Vignoli L., Galvagni A., Gomarasca S., Pesce G.R., Boccardelli A., Orsi L., Lovarelli D., Facchinetti D., Pessina D., **Bacenetti J.** (2019).

- Environmental impact of strawberry production in Italy and Switzerland with different cultivation practices. *Science of the Total Environment*, 664, 249-261.
28. Ingraio, C., **Bacenetti, J.**, Adamczyk, J., Ferrante, V., Messineo, A., & Huisingsh, D. (2019). Investigating energy and environmental issues of agro-biogas derived energy systems: A comprehensive review of Life Cycle Assessments. *Renewable Energy*, 136, 296-307.
 29. **Bacenetti, J.**, Fusi, A., & Azapagic, A. (2019). Environmental sustainability of integrating the organic Rankine cycle with anaerobic digestion and combined heat and power generation. *Science of The Total Environment*, 658, 684-696.
 30. González-García, S., **Bacenetti, J.** (2019). Exploring the production of bio-energy from wood biomass. Italian case study. *Science of the Total Environment*, 647, 158-168.
 31. Lovarelli, D., Falcone, G., Orsi, L., & **Bacenetti, J.** (2019). Agricultural small anaerobic digestion plants: Combining economic and environmental assessment. *Biomass and Bioenergy*, 128, 105302.
 32. Ingraio C., **Bacenetti, J.**, A. Bezama A., Blok V., Goglio G., Koukios E.G., Lindner M., Nemecek T., Siracusa V., Zabaniotou A., Huisingsh D. 2018. The potential roles of bio-economy in the transition to equitable, sustainable, post fossil-carbon societies: Findings from this virtual special issue. *Journal of Cleaner Production*, 204: 471-488.
 33. Lovarelli, D., Fusi A., Pretolani, R., **Bacenetti, J.**, (2018). Delving the environmental impact of roundwood production from poplar plantations. *Science of the Total Environment*, 645, 646-654.
 34. **Bacenetti J.**, Lovarelli D., Facchinetti D., Pessina D. (2018). An environmental comparison of techniques to reduce pollutants emissions related to agricultural tractors. *Biosystems Engineering*, 171, 30-40.
 35. Tayefeh, M., Sadeghi, S. M., Noorhosseini, S. A., **Bacenetti, J.**, & Damalas, C. A. (2018). Environmental impact of rice production based on nitrogen fertilizer use. *Environmental Science and Pollution Research*, 1-11.
 36. Lovarelli D., **Bacenetti J.**, Tholley J.b., Fiala F. 2018. Comparison Between Two Rice Cultivation Practices in Sierra Leone: Traditional and Alternative Method. *AGRICULTURAL MECHANIZATION IN ASIA AFRICA AND LATIN AMERICA*, 49 (2), 37-42.
 37. **Bacenetti, J.**, Lovarelli, D., Tedesco, D., Pretolani, R., & Ferrante, V. (2018). Environmental impact assessment of alfalfa (*Medicago sativa* L.) hay production. *Science of the Total Environment*, 635, 551-558.
 38. Bernardi B., Falcone G., Stillitano T., Benalia S., **Bacenetti J.**, De Luca I. 2018. Harvesting system sustainability in Mediterranean olive cultivation. *Science of The Total Environment*, 625: 1446-1458.
 39. Bava, L., **Bacenetti, J.**, Gislou, G., Pellegrino, L., D'Incecco, P., Sandrucci, A., ... & Zucali, M. (2018). Impact assessment of traditional food manufacturing: The case of Grana Padano cheese. *Science of The Total Environment*, 626, 1200-1209.
 40. **Bacenetti J.**, Cavaliere A., Falcone G., Giovenzana V., Banterle A., Guidetti R. 2018. Shelf life Extension as solution for environmental impact mitigation: A case study for bakery products. *Science of The Total Environment*, 627:997-1007.

41. Lovarelli D., Ingrao C., Fiala M., **Bacenetti J.** (2018). Beyond the Water Footprint: A new framework proposal to assess freshwater environmental impact and consumption. *JOURNAL OF CLEANER PRODUCTION*, 172, 4189-4199, 10.1016/j.jclepro.2016.12.067
42. **Bacenetti, J.**, Bava, L., Schievano, A., Zucali, M. 2018. Whey protein concentrate (WPC) production: Environmental impact assessment. *Journal of Food Engineering*, 224: 139-147.
43. Zucali M., **Bacenetti J.**, Tamburini A., Nonini L., Sandrucci A., Bava L. (2018). Environmental impact assessment of different cropping systems of home-grown feed for milk production. *Journal of Cleaner Production*, 172, 3734-3746, doi.org/10.1016/j.jclepro.2017.07.048
44. Tricase, C., Lamonaca, E., Ingrao, C., **Bacenetti, J.**, & Giudice, A. L. (2018). A comparative Life Cycle Assessment between organic and conventional barley cultivation for sustainable agriculture pathways. *Journal of Cleaner Production*, 172, 3747-3759.
45. Noya, I., González-García, S., **Bacenetti, J.**, Fiala, M., Moreira, M.T. (2018). Environmental impacts of the cultivation-phase associated with agricultural crops for feed production. *Journal of Cleaner Production*, 172, 3721-3733.
46. Proto A.R., **Bacenetti J.**, Macrì G., Zimbalatti G. (2017). Roundwood and bioenergy production from forestry: Environmental impact assessment considering different logging systems. *Journal of Cleaner Production*, 165, 1485-1498.
47. Lovarelli, D., **Bacenetti, J.** (2017). Seedbed preparation for arable crops: environmental impact of alternative mechanical solutions. *Soil Tillage Research*, 174, 156-168.
48. Lovarelli, D., **Bacenetti, J.** (2017). Bridging the gap between reliable data collection and the environmental impact for mechanised field operations. *Biosystems Engineering*, 160, 109-123.
49. **Bacenetti J.**, Restuccia A., Schillaci G., Failla, S. (2017). Biodiesel production from unconventional oilseed crops (*Linum usitatissimum* L. and *Camelina sativa* L.) in Mediterranean conditions: Environmental sustainability assessment. *Renewable Energy*, 112, 444-456.
50. Lijó, L., González-García, S., **Bacenetti, J.**, Moreira, M. T. (2017). The environmental effect of substituting energy crops for food waste as feedstock for biogas production. *ENERGY*, 137, 1130-1143, doi.org/10.1016/j.energy.2017.04.137.
51. Pesce G., Negri M., **Bacenetti J.**, Mauromicale G. (2017). The biomethane, silage and biomass yield obtainable from three accessions of *Cynara cardunculus*. *Industrial Crops and Products*, 103, 233-239.
52. Lijó, L., Lorenzo-Toja, Y., González-García, S., **Bacenetti, J.**, Negri, M., & Moreira, M. T. (2017). Eco-efficiency assessment of farm-scaled biogas plants. *Bioresource technology*, 237, 146-155.
53. Schmidt Rivera X., **Bacenetti J.**, Fusi A., Niero M. (2017). The influence of fertiliser and pesticide emissions model on life cycle assessment of agricultural products: The case of Danish and Italian barley. *SCIENCE OF THE TOTAL ENVIRONMENT*, 592, 745-757, 10.1016/j.scitotenv.2016.11.183
54. Fusi, A., González-García, S., Moreira, M. T., Fiala, M., **Bacenetti, J.** (2017). Rice fertilised with urban sewage sludge and possible mitigation strategies: an environmental assessment. *Journal of Cleaner Production*, 140, 914-923.

55. Lovarelli D., **Bacenetti J.**, Fiala M. (2017). Effect of local conditions and machinery characteristics on the environmental impacts of primary soil tillage. *Journal of Cleaner Production*, 140 (2), 479-491, doi:10.1016/j.jclepro.2016.02.011
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37. Bacenetti J., A. Mena, Negri M., P. Cantarella, S. Bocchi, Fiala M. (2012). Energetic and Environmental Balance of a Biogas Plant in Northern Italy. In: Proceedings CIGR-AgEng 2012 International Conference on Agricultural Engineering. Valencia, 2012, Valencia:CIGR-AgEng, ISBN: 8461599284
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41. Fiala M., Bacenetti J. (2009). Filiere agro-energetiche a confronto: bilancio economico, energetico e ambientale. In: IX Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria: "Ricerca e innovazione nell'ingegneria dei biosistemi agro-territoriali". 12-16 settembre 2009, Ischia Porto, Napoli, ISBN: 978-88-89972-13-7
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Invited talks

10 March 2017 - Title: "Life cycle assessment e valutazione dell'impatto delle filiere agricole: potenzialità e limiti", Host institution: Dipartimento del Territorio e Scienze forestali, **University of Padua**

12-19 March 2017 - Title: "Life cycle assessment of electricity production from anaerobic digestion plants", Host institution: Department of Chemical Engineering, **Universidad de Santiago de Compostela (Spain)**

15 May 2017 - Title: "Evaluation of the environmental impact of agro-food products by life cycle assessment: italian case studies", Host institution: Dipartimento di scienze agrarie, alimentari ed ambientali, **Università Politecnica delle Marche**

12 February 2018 - Title: "LCA application to Italian agro-food and agro-energy production processes", Host institution: **JOINT RESEARCH CENTRE - EUROPEAN COMMISSION DIRECTORATE-GENERAL - Sustainable Resources Bio-Economy Unit**

12-19 March 2017 - Title: "Life cycle assessment of electricity production from anaerobic digestion plants", Host institution: Department of Chemical Engineering, **UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (Spain)**

6-13 March 2019 - Title: "Life cycle assessment of Italian agro-food production systems", Host institution: Department of Chemical Engineering, **UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (Spain)**

Oral Presentations

1. AIIA-contoterzisti
2. **Bacenetti J.**, (2019). Environmental impact assessment of different solutions of pruning residues management in vineyard. ANQUE-ICCE 3, 3rd INTERNATIONAL CONGRESS OF CHEMICAL - ANQUE-ICCE-CIBIQ 2019.

3. **Bacenetti J.**, Giovenzana V., Niero M., Ingraio C., Guidetti R. (2017). Il prolungamento della shelf-life come strategia di mitigazione dell'impatto nelle filiere agro-alimentari: il caso studio del grissino integrale. XI° Convegno dell'Associazione Rete Italiana LCA 2017 - Resource Efficiency e Sustainable Development Goals: il ruolo del Life Cycle Thinking. Siena, 22-23 giugno 2017
4. **Bacenetti J.**, Falcone G., (2017). Electricity from biogas in Italy: Environmental consequences related to the elimination of economic subsidies. SETAC Europe 23rd LCA Case Study Symposium «Consequential LCA for decision support» 27-28 November 2017, Barcelona
5. **Bacenetti J.**, Lovarelli D., Pessina D. (2017). Life cycle assessment and environmental evaluation of agricultural mechanisation: potentiality, unsolved issues and possible interactions. 11th International AIIA Conference: July 5-8, 2017. Bari - Italy "Biosystems Engineering addressing the human challenges of the 21st century".
6. **Bacenetti J.**, Lovarelli D., Fiala M. (2016). Comparison among different techniques for slurry spreading: effect on the environmental performance of maize cultivation. Proceedings of "Mechanization and new technologies for the control and the sustainability of agricultural and forestry systems". Alghero 29 May - 1 June. Associazione Italiana di Ingegneria Agraria, 2016.n/a

IX. LANGUAGES

Mather Tongue: Italian.

Other:

LANGUAGE **ENGLISH**

READING SKILLS Good

WRITING SKILLS Good

SPEAKING Good

LANGUAGE **SPANISH**

READING SKILLS Good

WRITING SKILLS Good

SPEAKING Good

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".