

Curriculum Vitae of  
Giovanni Lagioia



Personal information

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Surname(s) / First name(s) Lagioia Giovanni

Address(es) *University of Bari Aldo Moro, Department of Economics, Management and Business Law, Bari, Italy and Catholic University Our Lady of Good Counsel, Faculty of Economics, Tirana, Albania.*

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Nationality Italian

Work experience

Dates **Degree in Economics** (1991), **PhD** (1995) in "Environmental impacts of production cycle of commodities", **researcher** of Commodity Science (SECS-P/13) in the period 1993 - 2001, **associate professor** since 2001.

Occupation or position held

**Full Professor** of Commodity Science since 2006;  
**Head** of Department of Economics, Management and Business Law (2018-) of the University of Bari Aldo Moro;  
**Deputy Rector** at the Catholic University Our Lady of good Counsel (2019-) for cooperation with business companies and labor market.

Main activities and academic responsibilities

**Teaching** of Commodity Science, Resources and Waste Management, Environmental Strategies for Circular Economy, Technologies and Environmental Certification. Technology of production cycles.  
**Seminars** about several commodity science topics in higher educational courses, Masters, European Module Jean Monnet and Physical Doctor courses of other Italian Universities.  
**Member of research group** regarding the ecological analysis of technological innovation of wood and derivatives production processes within the programme Interreg II Italia Albania Sottomisura 6.2.e: Improvement of techniques of forest species propagation and wood use.  
**Member of Task Force** to support Environmental Authority of Regione Puglia in defining indicators and evaluation of sustainability of regional system (Strategical Environmental Assessment, Waste Working Group).  
**Member of Input-Output analysis Working Group** set up by SETAC Europe.  
**Member of Working Group** on Industrial Uses of bio-technologies: commodities by chemical industry and energy within the PRAI Puglia - *Programme for Innovation and improvement of the relation industry-research through Bio-technologies*, supported by European Union (F.E.S.R. 2000-2006).  
**Director** of the Master "Expert for agroindustry chain of typical local produce, POR-Puglia 2000-2006. Misura 3.7 "Formazione superiore".

**Vice-Director** of Jean Monnet Module (2004-2008).  
**Leader Partner** of the Tempus project no. 530531 ELISAA (Tempus-1-2012-1-IT-IT-JPHES-EU) E-learning Innovation and Sustainable Albanian agriculture (2012-2015).  
**Associate Partner** INGRID -High-capacity hydrogen-based green-energy storage solutions for grid balancing, Tender of the Call "ENERGY.2001.7.3-2: Storage and balancing variable electricity supply and demand", European Union (2017);  
**Deputy Dean** of Faculty of Economics, University of Bari, for Erasmus program (2011-2012)  
**Deputy Dean** of Dept. of Economics, Management and Business Law-University of Bari Aldo Moro, for Erasmus program (2012-2018)  
**Reviewer** for International scientific Journals.  
**Member** of the Editorial Board of International scientific Journals.  
**Director** of Bachelor in Business Administration and Master in Business Consulting – University of Bari Aldo Moro (2012-2018).  
**Coordinator** of the PhD in Economics and Management – University of Bari Aldo Moro (2013-2018).  
**Deputy Head** of Department of Economics, Management and Business Law (2013-2018).  
**Dean** of the Faculty of Economics, Political and Social Science – Catholic University Our Lady of Good Counsel (2016-2019).  
**Member** of the Executive Board of the Italian Association of Commodity Science.  
**Member of Italian Platform on Circular Economy** stated by ENEA and Italian Government (2018-).

Name and address of employer	University of Bari Aldo Moro, Department of Economics, Management and Business Law				
Personal skills and competences					
Mother tongue	Italian				
Other language(s)	English				
Self-assessment	Understanding		Speaking		Writing
<i>European level</i> (*)	Listening	Reading	Spoken interaction	Spoken interaction	
Language	Good	Good	Good	Good	Good
Language					

(\*) Common European Framework of Reference for Languages

Research activity The main research interests refer to environmental impact of the production processes and consumption, industrial ecology and circular economy.

His activity is mainly based on life cycle analysis of commodities to describe the circulation of energy and materials in each production cycle, or in each industrial sector or in the whole economic system. He uses the results of studies about energy and material circulation to construct Intersectoral Table of economy in physical units (PIOT, Physical Input-Output Table).

In this field he is component of Input-Output analysis Working Group set up by SETAC Europe, and it has been carried out several experiences working together with international research institutes, as Wuppertal Institute (Germany) making one of the first deep analysis of material flows of the Italian economic system.

The production chains studied are primary aluminium, potato products (chips, French fries, dehydrates), animal sector, sugar, sugar-beet cultivation, Integrated Circuits, Mercury. Bioeconomy.

Another important field of research is the analysis of relations between resources, commodities and environment in order to illustrate the burdens that production and consumption of commodities cause in the environment.

Based on these research experiences he participates in several projects to evaluate sustainability of regional system, or of some commodities to illustrate the role of bio-technologies.

Furthermore, he studies technical and commodity characteristics of some goods, as platinum group metals and electronic goods.

In conclusion, the main interests of research refer to the following topics:

- Studies on the relationships between resources, commodity and environmental.
- Studies on the material flow analysis and environmental impact on the production processes and consumption (Material Flow Analysis, MFA - Substance Flow Analysis, SFA).
- Physical Input-Output Analysis of the whole economy.
- Technical-economic researches of the production processes under the concept of industrial ecology.

#### Selected Publications

Caggiani M.C., Forleo T., Pojana G. Lagioia G., Mangone A. Giannossa L.C., CHARACTERIZATION OF SILK-COTTON AND WOOL-COTTON BLENDS PATTERN BOOKS BY FIBER OPTICS REFLECTANCE SPECTROSCOPY. THE BOOMING MARKET OF FIRST SYNTHETIC TEXTILE DYES IN EARLY 20th CENTURY, *Microchemical Journal* Volume 175 April 2022 Article number 107178

Gallucci T., Lagioia G., Piccinno P., Lacalamita A., Pontrandolfo A., Paiano A. Environmental performance scenarios in the production of hollow glass containers for food packaging: an LCA approach *International Journal of Life Cycle Assessment* Volume 26, Issue 4, Pages 785 – 798, April 2021. Open Access. IF 4,141.

Crovella, T; Paiano, Annarita; Lagioia, Giovanni, A meso-level water use assessment in the Mediterranean agriculture. Multiple applications of water footprint for some traditional crops. DOI:10.1016/j.jclepro.2021.129886. In *JOURNAL OF CLEANER PRODUCTION* - ISSN:1879-1786 (330) IF 7,246

Paiano, Annarita; Gallucci, Teodoro; Pontrandolfo, Andrea; Lagioia, Giovanni; Piccinno, Paolo; Lacalandra Amedeo 2021. Sustainable options for paints through a life cycle assessment method. DOI:10.1016/j.jclepro.2021.126464. pp.1-15. In *JOURNAL OF CLEANER PRODUCTION* - ISSN:1879-1786 vol. 295;

Crovella, Tiziana; Paiano, Annarita; Lagioia, Giovanni 2021. Study on the ecological attitudes on Italian cruise passengers. DOI:10.1504/IJDCET.2021.10035789. pp.356-382. In *INTERNATIONAL JOURNAL OF DIGITAL CULTURE AND ELECTRONIC TOURISM* - ISSN:1753-5220 vol. 3 (3/4);

Amicarelli, V.; Lagioia, G.; Bux, C. 2021. Global warming potential of food waste through the Life Cycle Assessment: An analytical review. DOI:10.1016/j.eiar.2021.106677. In ENVIRONMENTAL IMPACT ASSESSMENT REVIEW - ISSN:0195-9255 vol. 91 (106667);

Amicarelli, V.; Aluculusei, A. C.; Lagioia, G.; Pamfilie, R.; Bux, C. 2021. How to manage and minimize food waste in the hotel industry? An exploratory research. In INTERNATIONAL JOURNAL OF CULTURE, TOURISM AND HOSPITALITY RESEARCH - ISSN:1750-6182;

Amicarelli, V.; Lagioia, G.; Sampietro, S.; Bux, C. 2021. Has the COVID-19 pandemic changed food waste perception and behavior? Evidence from Italian consumers. DOI:10.1016/j.seps.2021.101095. pp.101095. In SOCIO-ECONOMIC PLANNING SCIENCES - ISSN:0038-0121;

Amicarelli, Vera; Patrino, Antonio; Bux, Christian; Lagioia, Giovanni 2021. Passengers' perception on aviation environmental issues and its effect on sustainable tourism. DOI:10.1504/IJDCT.2021.10036111. pp.382-400. In INTERNATIONAL JOURNAL OF DIGITAL CULTURE AND ELECTRONIC TOURISM - ISSN:1753-5220 vol. 3 (3-4);

Amicarelli, Vera; Bux, Christian; Lagioia, Giovanni 2020. How to measure food waste? A Material Flow Analysis application. In BRITISH FOOD JOURNAL - ISSN:0007-070X vol. 123 (8), pp. 67-85;

Romani, Annalisa; Campo, Margherita; Lagioia, Giovanni; Ciani Scarnicci, Manuela; Paiano, Annarita (2020), *A Sustainable Approach to the Re-use of Biomass: Synergy Between Circular Agroindustry and Biorefinery Models*, in Roberta Salomone, Andrea Cecchin, Pauline Deutz, Andrea Raggi, Laura Cutaia (a cura di), *Industrial Symbiosis for the Circular Economy. Operational Experiences, Best Practices and Obstacles to a Collaborative Business Approach*, Cham, Switzerland, Springer Nature, p. 165-180. ISBN 978-3-030-36659-9;

Amicarelli, Vera; Bux, Christian; Lagioia, Giovanni; (2020), *Food consumption behavior towards food wastage minimization among university students*, Albert Hitoaliaj (a cura di) Policimi dhe siguria Krimi mjedisor, siguria mjedisore dhe siguria kombëtare (Policing and security Environmental crime, environmental safety and national security). ISBN 978-9928-210-13-5;

Paiano, Annarita; Crovella, Tiziana; Lagioia, Giovanni (2019). Managing sustainable practices in cruise tourism: the assessment of carbon footprint and waste of water and beverage packaging. DOI:10.1016/j.tourman.2019.104016. pp.104016. In *Tourism Management* - ISSN:0261-5177 vol. 77;

Lagioia, Giovanni; Amicarelli, Vera; Gallucci, Teodoro; Bux, Christian (2019). Food waste reduction towards food sector sustainability. pp.147-169. In *Handbook of Research on Globalized Agricultural Trade and New Challenges for Food Security*, Engineering Science Reference, Hershey - ISBN:9781799810421;

Amicarelli, Vera; Bux, Christian; Lagioia, Giovanni; Gallucci, Teodoro, (2019), *Building Energy Efficiency. The Economic Campus of the University of Bari Aldo Moro*, in Rodica Pamfilie, Vasile Dinu, Laurențiu Tăchiciu, Doru Pleșea, Cristinel Vasiliu, *Proceeding of BASIQ International Conference "New Trends in Sustainable Business and Consumption"*, Editura ASE, Bucarest (Romania), 739-745, ISBN 2457- 483X;

Giannossa, L. C.; Caggiani, M. C.; Mastrorocco, F.; Laviano, R.; Lagioia, G.; Mangone, A. (2019). Shining like gold and soft like silk. The case of byssus samples coming from the Commodity Science Museum of the University of Bari. In *Atti del Congresso Nazionale di Chimica Analitica*, 22-26 Settembre 2019 - ISBN:978-88-94952-10-0;

Gallucci, Teodoro; Lagioia, Giovanni; Amicarelli, Vera (2019). Life Cycle Assessment (LCA) application to develop circular economy: case study from a European project. pp. 80-94. In *Theory and practice of circular economy* - ISBN:978-619-7171-76-1;

Gallucci, Teodoro; Lagioia, Giovanni; Paiano, Annarita; Amicarelli, Vera (2019). Environmental and social sustainability of syngas production from RDF in Apulia Region. pp.1916-1923. In *Knowledge Ecosystems and Growth* - ISBN:978-88-96687-12-3;

Gallucci, Teodoro; Lagioia, Giovanni; Amicarelli, Vera; Dimitrova, Vesselina; Kaneva, Marian (2019). ICT and environmental indicators for green growth in Bulgaria. pp.730-738. In *Proceeding of BASIQ International Conference "New Trends in Sustainable Business and Consumption"*. ISSN 2457 - 483X;

Gallucci, Teodoro; Lagioia, Giovanni (2019). Sustainability of Syngas production within circular economy. pp.95-129. In *Theory and Practice of Circular economy* - ISBN:978-619-7171-76-1;

Amicarelli, Vera; Bux, Christian; Lagioia, Giovanni; Gallucci, Teodoro (2019). Energy Efficiency Policies in Non-Residential Buildings: the Case of the University of Bari Aldo Moro. pp.845-860. In *Amfiteatru Economic* - ISSN:1582-9146 vol. 21 (13/2019);

Romani A, Paiano A, Ciani Scarnicci M, Scardigli A, Lagioia G, (2018). Designing a circular economy model from the olive mill waste. In: Proceedings of the 24th International Sustainable Development Research Society Conference (ISDRS 2018) "Actions for a sustainable world: from theory to practice" 13-15 June 2018, Messina (Italy), p.430-441, ISBN: 978-88-943228-6-6;

Teodoro Gallucci, Giovanni Lagioia (2018), Tools for implementation of circular economy, in: Innovative models for circular economy, STENO Varna (BG), pp. 45-56. ISBN: 978-9-5421096-2-4;

Paiano Annarita, Crovella Tiziana, Lagioia Giovanni (2018). La riduzione della carbon footprint degli imballaggi nel settore crocieristico. In: Atti del Congresso AISME 2018. Firenze: Università degli Studi di Firenze-PIN Polo Universitario Città di Prato, ISBN: 978-88-943351-0-1

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Lonocce F, Amicarelli V, Lagioia G, Giannossa LC, (2017) Material Flow Analysis E Carbon Footprint. Un approccio Combinato Verso L'economia Circolare del Settore dell'acqua Confezionata, *Ingegneria dell'Ambiente*, 4 (3), 253-262 dx.doi.org/10.14672/ida.v4i3.1146.

Giannossa LC, Giacobello F, Muntoni I M, Laviano R, Caggiani MC, Mastrorocco F, Lagioia G, Mangone A, (2017), An analytical techniques pool to hit the target. A comprehensive examination on an Apulian red figured pottery collection, *Microchemical Journal* 134 (2017) 354-361, <http://dx.doi.org/10.1016/j.microc.2017.07.002>.

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P. Piccinno, T. Gallucci, V. Amicarelli, G. Lagioia (2016), An approach for the application of the Carbon Footprint as environmental indicator in the absorbent hygiene product sector GREEN AND CIRCULAR ECONOMY: RICERCA, INNOVAZIONE E NUOVE OPPORTUNITÀ, Ecomondo 2016;

Amicarelli V, Lagioia G, (2016). Recycling Aluminum: a key factor towards new metal industry circular economy. In: Proceedings of the 19<sup>th</sup> QMOD conference, ISBN: 978-91-7623-086-2, Università degli Studi Roma Tre, 21-23, September, Rome, Italy

Dimitrova V, Lagioia G, Kaneva M, Gallucci T (2015), Green factors for success of the cultural events in Bulgaria, Managing Intellectual Capital and Innovation for Sustainable and Inclusive Society Proceedings of the MakeLearn and TIIM Joint International Conference 27-29 May 2015, Bari, Italy;

Dimitrova V, Lagioia G, Kaneva M, Gallucci T (2015), Green Growth indicator in Bulgaria, Managing Intellectual Capital and Innovation for Sustainable and Inclusive Society Proceedings of the MakeLearn and TIIM Joint International Conference 27-29 May 2015, Bari, Italy;

De Benedetto E, Paiano A, Lagioia G, Cataldo A (2015). Sustainability of the Use of Mobile Phones. In: (a cura di): Yan, Zheng, Encyclopedia of Mobile Phone Behavior (3 Volumes). doi:10.4018/978-1-4666-8239-9.

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Amicarelli V., Lagioia G, Gallucci, T, (2014), The influence of halal certified products in Italian food market, In: Towards quality management systems and solutions, 2014, Polish Society of Commodity Science, Cracow, P 31-45, ISBN: 978-83-940189-0-0.

Gallucci T, Lagioia, G, Amicarelli V, (2014), Is lithium a strategic mineral? In: Achievements and challenges of commodity science in the age of globalization, 2014, Polish Society of Commodity Science, Cracow, ISBN: 978-83-938909-58, p. 109-118.

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- Lagioia, G, Calabrò G., (2013). L'etichetta climatica sui prodotti alimentari: un nuovo approccio dell'industria alimentare, *Industria Alimentari*, 52 (540), 15-22.
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- Lagioia, G, Paiano A., Cataldo A., (2013), A critical analysis of the sustainability of mobile phone use, *Resources, Conservation and Recycling* 73 (2013) 162– 171. IF 3,9. DOI: <http://dx.doi.org/10.1016/j.resconrec.2013.02.008>.
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- Lagioia G; Paiano A; Tresca F A; Lobefaro L, (2012). THE END OF LIFE MANAGEMENT IN THE RAILWAY SECTOR. AN ITALIAN CASE STUDY. In Proceedings of the 18th IGWT Symposium. Technology and Innovation for a Sustainable Future: a Commodity Science Perspective - Roma, 24-28 settembre 2012, ISBN:978-88-8286-269-5.
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In fede

F.to Giovanni Lagioia



Bari, 07.12.2022

Consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del DPR 445/2000, dichiaro che quanto sopra corrisponde a verità. Ai sensi del D.Lgs n. 196 del 30/06/2003 dichiaro altresì di essere informato che i dati raccolti saranno trattati, anche con strumenti informatici, esclusivamente nell'ambito del procedimento per il quale la presente dichiarazione viene resa e che al riguardo competono al sottoscritto tutti i diritti previsti all'art. 7 della medesima legge.