Antonio Molino

PERSONAL INFORMATION

ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development
Department: Department for Sustainability
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Sex: M| *Date of birth:* 29/11/1977| *Nationality*: Italian

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

26/05/2010 to today

ENEA

Researcher

Field: Biomass valorization for the production of biobased, chemicals, energy with circular approach.

EDUCATION AND TRAINING

01/03/2015 – 01/06/2016

2nd Level University "Management & E-Governance for the Public Administration - MAGPA II" Master's Degree

Institute: LUM Jean Monnet University – School of Management, Bari, Italy

20/01/2009 – 19/01/2012

Ph.D. in Chemicals and Materials Engineering (XXIV cycle)

Institute: University of Calabria, Rende (CS), Italy

01/11/1996 – 12/12/2003

Master's degree in Chemical Engineering

Institute: University of Naples Federico II, Naples

WORK ACTIVITIES

Editorial activity Editorial Board Member of "Sustainability" – MDPI; Rev Editor for Sustainable Chemical Process Design – Frontiers in Sustanability.

Grants Projects evaluator MUR as a scientific expert.

Patents Biomass gasification plant for the production of thermoelectric energy and biofuels. RM2014A000233 (2014).

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

UNDERSTANDING	SPEAKING	WRITING
Listening/ Reading	Spoken interaction/production	
C1	C1	C1

Job-related skills Good communication, organizational and managerial skills gained through the experience as speaker at several conferences, coordination/participation of/at several research projects and tasks of research project

Digital skills Competent with most Microsoft Office Programmes (Excel, Word, Publisher), Windows, Dos, Mathcad, Autocad, DELTAGRAPH, CHEMCAD

ADDITIONAL INFORMATION

Publications

total number of publications in peer-review journals: 84
total Impact Factor (IF) (average IF/paper): 6.4
total number of citations: 3,904
H index: 32

Molino A., Mehariya, S., Di Sanzo, G., Larocca, V., Martino, M., Leone, G.P., Marino, T., Chianese, S., Balducchi, R., Musmarra, D. (2020). *Recent developments in supercritical fluid extraction of bioactive compounds from microalgae: Role of key parameters, technological achievements and challenges*. Journal of CO_2 Utilization – Elsevier (IF:7.1, cit:68), vol. 36, p. 196-209, doi:10.1016/j.jcou.2019.11.014;

Molino A., De Gisi S., Petta L., Franzese A. Casella P., Marino T., Notarnicola M. (2019). *Experimental and theoretical investigation on the recovery of green chemicals and energy from mixed agricultural wastes by coupling anaerobic digestion and supercritical water gasification*. Chemical Engineering Journal – Elsevier (IF:13.3, cit:8), vol. 370, p. 1101-1110, doi:10.1016/j.cej.2019.03.292;

Verardi, A., Blasi, A., Marino, T., **Molino, A.**, Calabrò, V. (2018). Effect of steam-pretreatment combined with hydrogen peroxide on lignocellulosic agricultural wastes for bioethanol production: Analysis of derived sugars and other by-products. Journal of Energy Chemistry (IF:9.7, cit.:27), vol. 27, p. 535-543, doi:10.1016/j.jechem.2017.11.007;

Molino, A., Chianese, S., Musmarra, D. (2016). *Biomass gasification technology: The state of the art overview.* Journal of Energy Chemistry – Elsevier (IF:9.7, cit: 407), vol.25 (1), pp. 10-25, doi:10.1016/j.jechem.2015.11.005;

Molino, A., Nanna, F., Villone, A. Characterization of biomasses in the southern Italy regions for their use in thermal processes (2014) *Applied Energy*, - Elsevier (IF:9.7, 16), vol. 131, pp. 180-188. 10.1016/j.apenergy.2014.06.013.

Projects

VALUEMAG project - Valuable Products from Algae Using the new Magnetic Cultivation and Extraction Techniques, 100% funded by the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation. Grant agreement No. 745695. Total project value: 4,8 Million euros - ENEA financed amount: 813,500 euros (2017-2020).

Microperla Project PON01_01840 "Renewable Energy and Micro-Cogeneration Program for Agroindustry" - Total project amount: 9,7 Million euros - Amount of ENEA activity: 788.933 euro (2012 – 2016).

Other Relevant Information

National Scientific Qualification functions for Full Professor in the sector 09/D3 - Chemical plants and technologies, validity period: 03/08/2018-03/08/2027;

National Scientific Qualification functions for Associate Professor in the sector 03/B2 - Chemical basis of technology applications, validity period: 26/07/2017-26/07/2026;

National Scientific Qualification functions for Associate Professor in the sector 03/C2 – Industrial Chemistry, validity period: 05/12/2017-05/12/2026;

National Scientific Qualification functions for Associate Professor in the sector 09/D2 - Systems, methods and technologies of chemical and process engineering, validity period: 05/12/2017-05/12/2026.

2012 - 2016 – Italian National Contact of the International Energy Agency, task 33: Thermal Gasification of Biomass and Waste for the Implementing Bioenergy Agreement: http://www.ieatask33.org/content/participants.