

PERSONAL DATA

First and Family Name: Sara Di Lonardo

Institute: Research Institute on Terrestrial Ecosystems (IRET-CNR)

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DEGREES

Ph.D in Biosystematics and Plant Ecology, University of Firenze, Italy, 2012

M.A., Environmental Biology, University of Firenze, Italy, 2008

CURRENT POSITION

Current position: permanent researcher at the Research Institute on Terrestrial Ecosystems-National Research Council of Italy (IRET-CNR) from 2019. Field and pot experiments on dynamics and interactions among soil, plants and atmosphere.

RESEARCH AND WORK PAST EXPERIENCES (INCLUDED SELECTED PROJECTS)

2019. Researcher at ENEA (CR Casaccia, Roma, Italy) 1) to develop new soil amendments and new substrates with low energy/environmental impact based on organic residues from industrial/food origin (in particular, development of a biochar-substrate stratified system for green walls, as a solution to the critical issues about irrigation); 2) to conduct functional experiments with plant organisms for the construction of green infrastructures (green walls and roofs, vertical farms) on/in buildings and development of guidelines for their application and their incentive also through the use of GIS tools and remote sensing data analysis; 3) to optimize the vegetal system for air conditioning of buildings by exploiting a prototype of a bioclimatic greenhouse; 4) to improve energy efficiency of agricultural/agro-industrial chains and practices; 5) to implement LCA feasibility studies for the development of new innovative biological technologies for biogas upgrading in situ, based on the integration of a Bioelectrochemical System (BES) in the digester and for the production of a mix based on freeze-dried microorganisms in order to increase production biogas from lignocellulosic biomasses. (PTR 2019-2021, project 1.5 "Technologies, techniques and materials for energy efficiency and energy saving in the electrical end uses of new and existing buildings", activity 2.1 "Materials and innovative solutions to optimize the insulation of the building envelope")

2017-2019. Temporary researcher to conduct field, pot and confined-area experiments in ornamental and horticulture sector at CREA-OF (Pescia, Italy) for the projects 1) SUPERA-SUBstrati torba-free per specie vivaistiche a elevate PERFORMANCE destinate a Recupero ambientali e Aree verdi a bassa manutenzione, funded by Lombardia Region (PSR Regione Lombardia 2014-2020 Mis. 16.2), and 2) HT-HG High Tech-House Garden-La coltivazione in serra del futuro: l'high tech al servizio dell'ortoflorovivaismo toscano funded by Tuscany Region (POR FESR Toscana 2014-2020).

2014-2017. Temporary researcher in the application of micrometeorological techniques to measure anthropogenic emissions in urban areas (city centre and landfill; EDDYAPP project funded by Lazio Region) and for experimentation on the sustainable reuse of waste materials in agriculture and their impact on environment at IBIMET-CNR (Firenze, Italy).

2012-2013. Scientific collaboration with PIN S.c.r.l. and Health Tuscany Agency (ARS Toscana) to collect, reconstruct and analyze datasets on various environmental matrices (air, water, soil).

2011-2013. Temporary researcher to conduct experimental tests in ornamental sector and UV blocking properties of plant extracts at IBIMET-CNR for the EU project EUPHOROS-Efficient use of inputs in protected horticulture and ornamental crops" (KBBE-2007-1-2-04; Grant Agreement n. 211457), Sustainable textile chain funded by CNR and PRIN "Natural extracts from medicinal and textile-dyeing plants.

2010-2012. Stage at the Department of Crop Plant Biology (University of Pisa) working on analysis of physiological effects of different treatments (use of wool and biochar or black carbon in ornamental sector) on ornamental plants and analysis of drainage and aqueous extracts from different substrates for the EU project EUROCHAR (FP7-ENV-2010;project ID 265179).

2010-2011. Temporary researcher for the Project called "Plant resources for food and non-food use in Tuscany region: characterization and life cycle assessment (LCA) of products derived from nettle". Development of LCA analysis of different methods of fiber extraction from nettle with SimaPro software analysis at the Department of Pharmaceutical Sciences (University of Florence).

2010. Temporary researcher for the coordination and to conduct experimental tests in ornamental sector at IBIMET-CNR for the Swiff project funded by MIPAAF (Italian Ministry of Agriculture).

2009. Temporary researcher for microbiological and enzymatic retting and ecophysiological measurements on nettle and broom at IBIMET-CNR in the collaboration with the Department of Evolutionary Biology, Laboratory of Microbiology (University of Florence) in the ICCOG project funded by Tuscany Region.

2006. Stage at the Interuniversity Centre of Marine Biology and Applied Ecology "G. Bacchi" (Livorno, Italy) carrying on sediment and soil analysis and at the Environmental Tuscany Agency (Firenze, Italy) working on water and air biomonitoring.

NATIONAL POSITIONS

- **Member of the Scientific Committee** (2014-ongoing) of Legambiente Italia.

(<http://www.legambiente.it/legambiente/il-comitato-scientifico-di-legambiente>).

- **IRET-CNR referent** in the CNR UNI ISO standard network (Prot. CNR-IRET n. 4275 of 02/12/2020).

- **IRET-CNR representative** in the Steering Committee of the CNR Technology Transfer Center (CenTraTec) in Tuscany region (Prot. CNR-IRET n. 269 of 26/01/2021).

- **Member of the Organizer Committee** for the Italian National Congress BioDiv 2017 (Firenze, Sant'Apollonia; 06 October 2017). (<http://www.successionecologica.it/biodiv/>)

INTERNATIONAL POSITIONS

- **EFSA expert for CNR** (Prot. CNR n. 0051727 of 20-07-2021) for the thematic "Emerging risks".

- **Management Committee Substitute for Italy** in the Action CA19110 "Plasma applications for smart and sustainable agriculture" (Chair of the Action: Dr. Nevena Puac). (<https://www.cost.eu/actions/CA19110/#tabs|Name:overview>)

- Italian expert in the **EU Focus Group "Circular Horticulture"** (European Commission's Directorate for Agriculture and Rural development-EU DG AGRI). (<https://ec.europa.eu/eip/agriculture/en/focus-groups/circular-horticulture>)

- Expert in the **Dgroup "Trees for the Cities"/Silva Mediterranea Working Group on Urban and Peri-urban Forestry"** (Food and Agriculture Organization of the United Nations-FAO). (<https://dgroups.org/fao/silvamed-wg7/members/country/it>)

- **Management Committee Substitute for Italy** in the Action COST FP1205 "Innovative applications of regenerated wood fibers" (Chair of the Action: Dr. Åsa Ostlund). (<https://www.cost.eu/actions/FP1205/#tabs|Name:overview>)

- Responsible of the biological information in the **European Fluxes Database Cluster** for the eddy covariance sites 1) Giugliano (Napoli, Italia) and 2) Osservatorio Valerio (Pesaro, Italia) (available at the website: <http://www.europe-fluxdata.eu/pi-area/sites-info>)

- **Member and adviser of SESRE** ("European Society for Rural Development and Ecotourism"; 2008-2011 [end of association life]).

RESEARCH WORKING GROUPS

- Involvement in the managing of the EU INTERACT III project.

- Involvement in the WG3 "Resource recovery" of the COST Action CA17133 "Implementing nature based solutions for creating a resourceful circular city".

- Involvement in various ESFRI-JRU ICOS-IT EU project WG (e.g. eddy covariance system setup; storage fluxes; chambers measurements; soil samples collection and analysis; plants samples collection and analysis; ancillary vegetation measurements; soil continuous climate variables; data processing; non-CO₂ manual chamber measurements; measurements over urban areas) and WG on particular topics (e.g. ICOS 2020 Winter Working Group).

- Involvement in the WG3 "New methodologies to study mechanobiology of cells and tissues" of the COST Action CA15214 "An Integrative Action for Multidisciplinary Studies on Cellular Structural Networks".

- Silva Mediterranea Working Group on Urban and Peri-urban Forestry" (Food and Agriculture Organization of the United Nations-FAO). (<https://dgroups.org/fao/silvamed-wg7/members/country/it>)

- Quasar working group (Qualità dell'Aria Studi Ambientali e Ricerca) <http://www.ariasana.org> --> QuASAR

- Biochar ProSEEA working group <http://www.biochar-molise-proseaa.it/>

INTERNATIONAL EXCHANGE PROJECTS

My own stay abroad and scholarship in international activities and research

1. **January 2014.** Scholarship for participation in the Training School "Using R in UV photobiology research" in Helsinki (Finland).
2. **June 2013.** Scholarship for participation in the Summer School "Ecophysiological Field Techniques in Climate Change and Pollution Research" at the Universidad de La Laguna, Tenerife (Spain).

10/08/2021

3. **May 2013.** Scholarship for participation in the Summer School "Fiber Crops as sustainable source of biobased material for industrial products in Europe and China" at the University of Catania.
4. **September 2012.** Scholarship from the European Organization for Research and Treatment of Cancer for participation in the EORTC QOL Conference 2012 on "Quality of Life, Symptom Research and Patient Reported Outcomes in Cancer Clinical Trials" at the European Parliament in Brussels (Belgium).
5. **June 2011.** Scholarship of the Institut Laue-Langevin (ILL) of Grenoble and of the University of Milan for participation in the "Didactic days of the Italian Society of Neutron Spectroscopy: introduction to neutron techniques for the microscopic study of matter, with applications to physics, chemistry, biology and geology" at Grenoble (France).
6. **June 2011.** Scholarship from the Center for Membrane Proteomics (European Science Foundation) and Goethe University of Frankfurt / Main for participation in the Summer School "Physiology and Biophysics of Photosynthetic Organisms" in Frankfurt (Germany).

RECOGNITIONS AND AWARDS

1. **2014.** Finalist for the Italian Prize on Scientific Divulgence 2014 as author of two chapters in the book A.A.V.V. "Materiali e tecnologie ecosostenibili come nuova opportunità", ARACNE Editrice. ISBN 9788854872295
2. **2013.** Ricercat@mente prize for the macroarea "Science of Earth System and Technologies for the Environment" (The initiative had the patronage of the National Research Council and Lincei Academy). Research activity: "Ex situ remediation and bioconservation technologies".

INTERNATIONAL PROJECT REVIEWER

1. EU call "Open Call for Industrial Challenges", published by the EU agROBOfood network (H2020-Grant Agreement n. 825395) (remote evaluation start: 19/02/2021, end: 07/03/2021) (contract prot. BioSense Institute n. 2021-01-6/44 del 01/04/2021)
2. EU call Marie Skłodowska-Curie: Individual Fellowships (H2020-MSCA-IF-2020, remote evaluation start: 02/10/2020, end: 04/12/2020 Central evaluation N/A 01/11/2020) (contract n. CT-EX2017D310022-102)
3. EU call H2020-BBI-JTI-2020, topics DEMO&FLAG (remote evaluation start: 15/09/2020 end: 18/10/2020 Central evaluation start: 19/10/2020, end: 30/10/2020) (contract n. CT-EX2017D310022-103)
4. EU call Marie Skłodowska-Curie: Individual Fellowships (H2020-MSCA-IF-2019, remote evaluation start: 07/10/2019 end: 06/12/2019 Central evaluation N/A 14/11/2019) (contract n. CT-EX2017D310022-101)

MEMBER OF EXAMINING COMMITTEES

1. **2021.** Commission member in charge of testing the scientific instrumentation consisting of an FT-IR optical bench equipped with a chemical imaging microscope located at the IRET Section of Sesto Fiorentino. Prot. IRET-CNR 2941 on 05/08/2021.
2. **2021.** Commission member for the supply of a FTIR optical bench equipped with a chemical imaging microscope (CUP: B55J19000360001 - CIG: 8578275877). Prot. IRET-CNR n. 813 of 04/03/2021.
3. **2021.** Post-Doc commission substitute member. Project "LIFE19FR/ENV/000086 AIRFRESH Air pollution removal by urban forests for a better human well-being". Post-doc position at IRET-CNR, Florence, Italy. Prot. CNR-IRET n. 1004 on 18/03/2021.
4. **2020.** Post-Doc commission member (then appointed as secretary). Project "Programma di Ricerca sullo studio delle risposte vegetali allo stress". Post-Doc position at IRET-CNR, Florence, Italy. Prot. CNR-IRET n. 2437 on 14/07/2020.
5. **2020.** Post-Doc commission member. Project "INTERREG ITALIA-SVIZZERA "Parchi Verbano Ticino". Post-Doc position at IRET-CNR, Florence, Italy. Prot. CNR-IRET n. 1954 on 04/06/2020.
6. **2020.** Commission member for Licor testing. Prot. CNR-IRET n. 1635 on 11/05/2020.
7. **2020.** Commission member substitute for the supply of a portable analyzer for the combined measurement of gas exchanges and chlorophyll fluorescence. RDO n. 2522707 for the CIG 8088410f12. Prot. CNR-IRET n. 853 on 28/02/2020.
8. **2015.** Two-awards commission member in memory of Laura Bacci (2014 CNR Award). Prot. CNR-IBIMET n. 2130 on 13/10/2015.

PROFESSIONAL AND ACADEMIC TEACHING ACTIVITY

1. **2018.** Teacher for the course "Phytodepuration for domestic and agro-industrial wastewater" within the training course financed by the Tuscany Region (POR-FSE 2014/2020; regional code, 167602; matriculate, 2018GL0011) called AGITA: "Worker on technical interventions and agronomists on cultivation and management of plants, machines and equipment".
2. **2012-2014.** Teaching assistant for student in biological laboratory for the Molecular biology and Ecology courses (2012-2013) and for the Microbiology and the Hygiene courses (2013-2014).
3. **2009-2012.** Junior tutor at the Faculty of Mathematical, Physical and Natural Sciences (University of Florence) for supplementary, preparatory and recovery educational activities.
4. **2009-2010.** Chemistry teacher in an experimental class of a Science High School in Bagno a Ripoli (Firenze, Italy).

INTERNSHIP SUPERVISORY

1. **2021.** Elena Buracchi (University of Firenze).
2. **2021.** Sara Grossi (University of Firenze).
3. **2021.** Elia Londi (University of Firenze).
4. **2020-2021.** Marco Rinaldi (University of Firenze).

MASTER THESIS SUPERVISORY

1. **2013.** Master thesis supervisory. Title: Life Cycle Assessment (LCA) applicato alle coltivazioni di *Carthamus tinctorius* e *Cynara cardunculus* a scopo energetico. Student: Jacqueline Ramírez Almeyda. University of Bologna.

PhD SUPERVISORY

1. **2018.** PhD thesis supervisory. Title: Low-cost air quality stations and control network for a smart city. Student: Dr. Alice Cavaliere. University of Firenze.

INVITED SPEECHES

1. Speech entitled "NTP e post raccolta" at the SOI online webinar on NTP technologies. Online, 20 May 2021.
2. Speech entitled "Pandemia e biodiversità" at the online *+scienza* Legambiente webinars for schools. Online, 11 February 2021.
3. Speech entitled "Potenzialità e problematiche nell'utilizzo di substrati a matrice organica alternativi alla torba e tecniche di gestione" at the Final Congress of SUPERA Project "Substrati torba-free per specie vivaistiche a elevate PERFORMANCE destinate a Recupero ambientali e Aree verdi a bassa manutenzione" at the Orto Botanico di Pavia (Università degli Studi di Pavia). Pavia (Italy), 28 September 2018.
4. Speech entitled "Impiego di substrati alternativi alla torba per la coltivazione di erbacee perenni e arbusti" all'Open Day del Progetto SUPERA "Substrati torba-free per specie vivaistiche a elevate PERFORMANCE destinate a Recupero ambientali e Aree verdi a bassa manutenzione". Pescia (Italy), 10 May 2018.
5. Speech entitled "Isole di calore in aree urbane. La meteorologia in ambito cittadino nei comuni di Firenze e Scandicci" all'incontro organizzato del Rotary Club Certosa. Firenze (Italy), 16 February 2017.
6. Speech entitled "Effetti e rischi dell'uso insostenibile dei pesticidi" at the presence of the Italian Deputy Minister for Agricultural, Food and Forestry Policies. Roma (Italy), 31 January 2017.
7. Speech entitled "L'inquinamento ed il monitoraggio ambientale" at the Secondary School "G. Bagnera". Roma, 20 April 2016.
8. Speech entitled "Cellulosic neglected materials as potential resources for local industries" at the COST FP1205 Workshop focussing on "Science and uses of nanocellulose" and "Cellulose foams and films". Bangor (UK), 05 March 2014.
9. Speech entitled "Sostenibilità ambientale. Il caso dei vivai pistoiesi" at the meeting "Pesticidi: effetti sulla salute e sull'ambiente". Pistoia (Italy), 13 December 2013.
10. Speech entitled "Strumenti di supporto decisionale per la sostenibilità ambientale in agricoltura" at the SANA Congress "Sostenibilità e biodiversità: due facce della stessa medaglia". Bologna (Italy), 07 September 2013.
11. Speech entitled "Le materie prime di origine vegetale utilizzate nel tessile: dalla fase agricola alla prima lavorazione" at the Training Course "La sostenibilità ambientale nel settore tessile abbigliamento". Firenze (Italy), 14 June 2013.
12. Speech entitled "Impatti ambientali dei materiali, processi e prodotti della filiera tessile moda abbigliamento: LCA uno strumento di valutazione" at the Training Course "La sostenibilità ambientale nel settore tessile abbigliamento". Firenze (Italy), 28 June 2013.

13. Speech entitled “Estratti naturali da piante multifunzionali: caratterizzazione e usi innovativi di *Urtica dioica* L., *Daphne gnidium* L. e *Helichrysum italicum* L.” at the Workshop on “Materiali e tecnologie ecosostenibili come nuove opportunità di business”. Novedrate (Italy), 15 May 2013.
14. Speech entitled “Life Cycle Assessment di una coltura di elicriso per la produzione di olio e di pigmenti coloranti” alla Workshop on “Materiali e tecnologie ecosostenibili come nuove opportunità di business”. Novedrate (Italy), 15 May 2013.

OTHER SPEECHES

1. Speech entitled “A rapid method for the identification and classification of microplastics based on Fourier transform infrared photoacoustic spectroscopy (FTIR-PAS)” at EFSA’s 25th Scientific Colloquium “A coordinated approach to assess the human health risks of micro- and nanoplastics in food”. Lisbona (Portugal), 06-07 May 2021.
2. Speech entitled “River as a trigger for active citizenship of small rural communities: a case study in Central Italy” at the International Conference "Daylighting rivers: inquiry based learning for civic ecology". Firenze (Italy), 01 December 2020.
3. Speech entitled "Sustainability assessment of fiber nettle production in Central Italy through a life cycle approach" at the Online Symposium on Circular Economy and Sustainability (INFER2020), 03 July 2020.
4. Speech entitled "Selecting plant species within green infrastructure design for the energetic, environmental and social sustainability of cities" at the Online Symposium on Circular Economy and Sustainability (INFER2020), 03 July 2020.
5. Speech entitled “Biogas recovery from urban waste landfill drastically reduces greenhouse gas emissions” at the 'XXI IUPAC CHEMRAWN Conference on Solid Urban Waste Management. Roma (Italy), 06 April 2016.
6. Speech entitled “Measuring landfills CH₄ emission with aircraft, eddy covariance and chambers techniques” at the 10th International Conference on Air Quality, Science and Application. Milano (Italy), 18 March 2016.
7. Speech entitled “Emissioni di biogas da discarica dalla microscala alla scala di comprensorio” at the Workshop “Misura e previsione delle emissioni inquinanti in Campania e ruolo della vegetazione”. Napoli (Italy), 16 December 2015.
8. Speech entitled “Chestnut management practice as tool for natural and cultural landscaping” at the 1st European Conference for the Implementation of the UNESCO-SCBD Joint Programme on Biological and Cultural Diversity. Firenze (Italy), 09 April 2014.
9. Speech entitled “Impiego di cascami di lana come ammendanti/fertilizzanti nel settore vivaistico” at the X Giornate Scientifiche della Società di Ortoflorofruitticoltura Italiana (SOI). Padova, 27 June 2013.
10. Speech entitled “Efficacia delle politiche di contenimento dell’inquinamento ambientale da traffico adottate a livello locale: una revisione della letteratura scientifica” at the XXXVI° Convegno AIE. Bari (Italy), 29-31 October 2012.
11. Speech entitled “Uso del biochar nella micropropagazione del pioppo bianco (*Populus alba* L.)” at the II° Convegno Nazionale sulla Micropropagazione. Sanremo (Italy); 07-09 November 2011.
12. Speech entitled “Screening in vitro di cloni autoctoni di *Populus alba* L. da destinare alla fitoestrazione di metalli pesanti” at the Workshop “La coltura in vitro applicata alla conservazione e alla valorizzazione della biodiversità vegetale”. L’Aquila (Italy), 01 October 2010.
13. Speech entitled “Extraction of fiber nettle for textile purpose” at the 22nd International Congress IFATCC. Stresa (Italy); 05-07 May 2010.
14. Speech entitled “Tossicità ed assorbimento di alcuni metalli in cloni di *Populus alba* L. coltivati *in vitro*” at the Workshop "In vitro technologies applied to plants". Milano (Italy), 22 Ottobre 2009.

EDITORIAL BOARD MEMBER OF ISI JOURNALS

1. Agronomy (ISSN 2073-4395).

EDITOR OF SPECIAL ISSUES IN ISI JOURNALS

1. **2021.** Special issue “System efficiency and resource recovery in the Circular Horticulture” of the Journal AGRICULTURE (ISSN 2077-0472) with Prof. Silvana Nicola.
2. **2020-2021.** Special issue “The Effects of Biochar on Organisms” of the Journal AGRONOMY (ISSN 2073-4395).
3. **2020-2021.** Special issue “Regulation of Photosynthesis in Crop for Sustainable Production” of the Journal AGRONOMY (ISSN 2073-4395) with Dr. Yasutomo Yoshika.

REVIEWER EDITOR OF SCIENTIFIC JOURNALS

1. **2020-ongoing.** Journal FRONTIERS IN SUSTAINABILITY, section 'Circular Economy' (ISSN 2673-4524).

REVIEWER BOARD MEMBER OF SCIENTIFIC JOURNALS

1. **2020-ongoing.** Journal Pollutants (ISSN 2673-4672).

ISI JOURNAL REFEREEING (12 journals)

Agricultural Water Management, Environmental Science and Pollution Research, Industrial Crops and Products, Science of Total Environment, Plant Growth Regulation, Textile Research Journal, Urban Forestry and Urban Greening, Pedosphere, Sustainability, Water, Environments, International Journal of Environmental Research and Public Health (<https://publons.com/researcher/3197551/sara-di-lonardo/peer-review/>).

METRICS

H-Index (scopus): 14

H-index (scholar): 15

Number of citations (scopus): 645

Number of citations (scholar): 895

PEER REVIEWED ARTICLES

1. **Di Lonardo S.**, Cacini S., Becucci L., Lenzi A., Orsenigo S., Zubani L., Rossi G., Zaccheo P., Massa D. (2021) "Testing new peat-free substrate mixtures for the cultivation of perennial herbaceous species: a case study on *Leucanthemum vulgare* Lam.". *Scientia Horticulturae* 289: 110472. <https://doi.org/10.1016/j.scienta.2021.110472>
2. Pearlmutter D., Pucher B., Calheiros Cristina S.C., Hoffmann K.A., Aicher A., Pinho P., Stracqualursi A., Korolova A., Pobric A., Galvão A., Tokuç A., Bas B., Theochari D., Milosevic D., Giancola E., Bertino G., Castellar J.A.C., Flaszynska J., Onur M., Garcia Mateo M.C., Andreucci M.B., Milousi M., Fonseca M., **Di Lonardo S.**, Gezik V., Pitha U., Nehls T. (2021) "Closing water cycles in the built environment through nature-based solutions: The contribution of vertical greening systems and green roofs". *Water* 13: 2165. DOI: 10.3390/w13162165
3. Cacini S., **Di Lonardo S.**, Orsenigo S., Massa D. (2021) "Managing pH of organic matrices and new commercial substrates for ornamental plant production: a methodological approach". *Agronomy* 11 (5): 851. <https://doi.org/10.3390/agronomy11050851>
4. Cannazzaro S., Traversari S., Cacini S., **Di Lonardo S.**, Pane C., Burchi G., Massa D. (2021) "Non-Thermal Plasma treatment influences shoot biomass, flower production, and nutrition of gerbera plants depending on substrate composition and fertigation level". *Plants* 10: 689. DOI: 10.3390/plants10040689
5. Kletecka-Pulker **et al.** (2021) "Impacts of biomedical hashtag-based Twitter campaign: #DHPSP utilization for promotion of open innovation in digital health, patient safety, and personalized medicine". *Current Research in Biotechnology* 3: 146-153. DOI: 10.1016/j.crbiot.2021.04.004
6. Gualtieri G., **Di Lonardo S.**, Carotenuto F., Toscano P., Vagnoli C., Zaldei A., Gioli B. (2021) "The role of emissions and meteorology in driving CO₂ concentrations in urban areas". *Environmental Science and Pollution Research*. In press. <https://doi.org/10.1007/s11356-021-12754-8>
7. Kocian A., Massa D., Cannazzaro S., Incrocci L., **Di Lonardo S.**, Milazzo P., Chessa S. (2020) "Dynamic Bayesian Network for Crop Growth Prediction in Greenhouses". *Computers and Electronics in Agriculture* 169: 105167. DOI 10.1016/j.compag.2019.105167
8. Carriero G., Neri L., Famulari D., **Di Lonardo S.**, Piscitelli D., Manco A., Esposito A., Chirico A., Facini O., Finardi S., Tinarelli G., Prandi R., Zaldei A., Vagnoli C., Toscano P., Magliulo E., Ciccio P., Baraldi R. (2018) "Composition and emission of VOC from biogas produced by illegally managed waste landfills in Giugliano (Campania, Italy) and potential impact on the local population". *The Science of the Total Environment* 600: 377-386. DOI 10.1016/j.scitotenv.2018.05.318
9. **Di Lonardo S.**, Baronti S., Vaccari F.P., Albanese L., Battista P., Miglietta F., Bacci L. (2017) "Biochar-based nursery substrates: the effect of peat substitution on reduced salinity". *Urban Forestry and Urban Greening* 23: 27-34. DOI 10.1016/j.ufug.2017.02.007
10. Trupiano D., Coccozza C., Baronti S., Amendola C., Vaccari F.P., Lustrato G., **Di Lonardo S.**, Fantasma F., Tognetti R., Scippa G.S. (2017) "The effect of biochar and its combination with compost on lettuce (*Lactuca sativa* L.) growth, soil properties and soil microbial population". *International Journal of Agronomy* 2017: article ID 3158207, 12 pages. DOI 10.1155/2017/3158207

11. Alessandrini E.R. et al. (2016) "Association between short-term exposure to PM_{2.5} and PM₁₀ and mortality in susceptible subgroups: a multisite case-crossover analysis of individual effect modifiers". *American Journal of Epidemiology* 184 (10): 744-754. DOI 10.1093/aje/kww078
12. Gualtieri G., Toscano P., Crisci A., **Di Lonardo S.**, Tartaglia M., Vagnoli C., Zaldei A., Gioli B. (2015) "Influence of road traffic, residential heating and meteorological conditions on PM₁₀ concentrations during air pollution critical episodes". *Environmental Science and Pollution Research* 22 (23): 19027-19038. DOI 10.1007/s11356-015-5099-x
13. Camilli F., Crisci A., Mauro A., Bacci L., **Di Lonardo S.**, Vagnoni E., Duce P. (2015) "A preliminary characterization of wools from Italian native sheep breeds: opportunities for new productions and the development of rural areas". *Journal of Natural Fibers* 12 (3): 265-275. DOI 10.1080/15440478.2014.920287
14. Vaccari F.P., Maienza A., Miglietta F., Baronti S., **Di Lonardo S.**, Giagnoni L., Lagomarsino A., Pozzi A., Pusceddu E., Ranieri R., Valboa G., Genesio L. (2015) "Biochar stimulates plant growth but not fruit yield of processing tomato in a fertile soil". *Agriculture, Ecosystems & Environment* 207: 163-170. DOI 10.1016/j.agee.2015.04.015.
15. Di Virgilio N., Papazoglou E.G., Jankauskiene Z., **Di Lonardo S.**, Praczyk M., Wielgusz K. (2015) "The potential of stinging nettle (*Urtica dioica* L.) as a crop with multiple uses". *Industrial Crops and Products* 68: 42-49. DOI 10.1016/j.indcrop.2014.08.012.
16. Grifoni D., Bacci L., **Di Lonardo S.**, Pinelli P., Scardigli A., Camilli F., Sabatini F., Zipoli G., Romani A. (2014) "UV protection properties of cotton and flax fabrics dyed with multifunctional plant extracts". *Dyes and Pigments* 105: 89-96. DOI 10.1016/j.dyepig.2014.01.027
17. **Di Lonardo S.**, Nuvolone D., Forastiere F., Cadum E., Barchielli A., the EPIAIR2 Study Group (2013) "Policies for the promotion of sustainable mobility and the reduction of traffic-related air pollution in the cities participating in the EpiAir2 project". *Epidemiologia e Prevenzione* 37 (4-5): 242-251.
18. Alessandrini E.R. et al. (2013) "Air pollution and mortality in twenty-five Italian cities: results of the EpiAir2 Project". *Epidemiologia e Prevenzione* 37 (4-5): 220-229.
19. Scarinzi C. et al. (2013) "Air pollution and urgent hospital admissions in 25 Italian cities: results from the EpiAir2 project". *Epidemiologia e Prevenzione* 37 (4-5): 230-241.
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