



PERSONAL DETAILS

Surname, name	FARES SILVANO
E-mail	SILVANO.FARES@CNR.IT
Nationality	Italian
Date of birth	25/11/1980
ORCID ID	0000-0002-1990-0928
SCOPUS ID	56962755600
ResearcherID	H-4322-2011

WORK EXPERIENCE

- Reference period **16/12/2019 – CURRENTLY**
 - Employer CNR-IBE (National Research Council – Institute of Bioeconomy). Via dei Taurini 19, 00100 Rome, Italy.
 - Kind of employment Research Director.
 - Main tasks and responsibilities Leader of the Biometeorology lab.
- Reference period **03/04/2017 – 15/12/2019**
 - Employer CREA-FL (Council for Agricultural Research and Economics – Research Centre for Forestry and Wood). Viale Santa Margherita 80, 52100 Arezzo, Italy.
 - Kind of employment Senior researcher.
 - Main tasks and responsibilities Leader of the Biometeorology lab.
- Reference period **29/11/2010 – 02/04/2017**
 - Employer CREA-RPS (Council for Agricultural Research and Economics – Research centre for the plant-soil system). Via della Navicella 2-4 (Rome), Italy.
 - Kind of employment Researcher.
 - Main tasks and responsibilities Leader of the Ecophysiology and Biometeorology labs.
- Reference period **07/2009 – 11/2010**
 - Employer CNR-IBAF (National Research Council – Institute of Agro-Environmental and Forest Biology). Via Salaria km. 29,300, 00016 Monterotondo Scalo (Rome), Italy. Affiliated to: Department of Environmental Sciences, Policy and Management. University di Berkeley, California, USA.
 - Kind of employment Researcher.
 - Main tasks and responsibilities Exchanges of greenhouse gases and volatile organic compounds between biosphere and atmosphere, absorption of gaseous pollutants by plants, effect of abiotic stress on the physiology of agro-forest species.
- Reference period **04/2008 – 07/2009**
 - Employer Department of Environmental Sciences, Policy and Management. University di Berkeley, California, USA.
 - Kind of employment Postdoctoral research associate.

- Main tasks and responsibilities Coordination of experimental activities on greenhouse gas and VOC flows between agro-forest ecosystems and the atmosphere.

MAIN PROJECT INVOLVEMENT

- Reference period **02/2012– 01/2025**
 - Type of project Ministry of Research (MUR). PRIN 2020 call. Title " Multi-scale observations to predict Forest response to pollution and climate change" (MULTIFOR).
- Duration and extent of funding 3 years, 688.324,00 euro.
 - Role in the project Coordinator and scientific PIC for CNR.
- Main tasks and responsibilities Responsible for project management, research focused on measurement and modelling forest response to climate changes and pollution.

- Reference period **04/2021– 03/2023**
 - Type of project Lazio Innova (regione Lazio), Bando competitivo soggetto a revisione per progetti di Ricerca presentati da Università e Centri di Ricerca. Titolo " Tecnologie geomatiche e ambientali di precisione per il monitoraggio e la valorizzazione dei servizi ecosistemici delle infrastrutture verdi urbane e peri-urbane". (TECNOVERDE).
- Duration and extent of funding 2 anni, 146.489,00 euro.
 - Role in the project Coordinatore e responsabile scientifico per il CNR.
- Main tasks and responsibilities Responsabile del progetto, studio della vegetazione di ambiente urbano e servizi ecosistemici.

- Reference period **12/2018– 05/2022**
 - Type of project Programme EU LIFE+ " Vegetation for Urban Green Air Quality Plans ". (VEG-GAP).
- Duration and extent of funding 4 years, 142.701,00 euro.
 - Role in the project Beneficiary partner, scientific responsible for CREA.
- Main tasks and responsibilities Task leader on ecosystem service estimation from target municipalities.

- Reference period **07/2016– 06/2020**
 - Type of project Programme EU LIFE+ " Monitoring Ozone Injury for Setting Critical levels ". (MOTTLES- LIFE15 ENV/IT/000183).
- Duration and extent of funding 4 years, 216.700,00 euro.
 - Role in the project Beneficiary partner, scientific responsible for CREA.
- Main tasks and responsibilities Coordination of a monitoring network to estimate ozone damage on forests.

- Reference period **09/2016– 09/2020**
 - Type of project Research Infrastructure Program (IR) Integrated Carbon Observation System (ICOS) of the European Community.
- Duration and extent of funding
 - Role in the project Coordinator of terrestrial ecosystems.
- Main tasks and responsibilities Delegated by the CREA President to represent CREA in the general assembly within the Collaboration Agreement for the establishment of a Joint Research Unit (JRU) called "ICOS- ITALY".

- Reference period **10/2016– 10/2018**
 - Type of project Horizon 2020, Marie Curie Intra-European fellowship. " Air Quality at the Urban-Rural Interface". (AQURI GA n. 701550).
- Duration and extent of funding 2 years, 180.277,00 euro.
 - Role in the project Coordinator.
- Main tasks and responsibilities Measurement and modelling GHG exchanges in a periurban area.

- Reference period **07/2016– 11/2017**
 - Type of project Convention with the Academy of Sciences called the XL "Platform for monitoring the ecophysiological parameters of the forest vegetation of the Castelporziano estate" - CASTEL4.
 - Finanziamento 15.000,00 euro.

<ul style="list-style-type: none"> • Role in the project • Main tasks and responsibilities 	<p>Coordinator. Responsibile of the experimental site of Castelporziano.</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Duration and extent of funding • Role in the project • Main tasks and responsibilities 	<p>12/2015– 12/2017 Lazio Innova (Lazio region), " Role of urban forestation in the mitigation of climatic emergencies and pollution: innovative planning and evaluation tools ". (URBANFOR3). 2 years, 181.000,00 euro.</p> <p>Coordinator. Monitoring ecosystem services.</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Duration and extent of funding • Role in the project • Main tasks and responsibilities 	<p>09/2014– 03/2018 LIFE+ EU Programme " Sustainable Monitoring and Reporting to Inform Forest- and Environmental Awareness and Protection". (SMART4ACTION). 4 years, 542.000,00 euro.</p> <p>Beneficiary partner, scientific responsible for CREA. Monitoring of climate parameters in forest ecosystems of the ICP-Forests network..</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Duration and extent of funding • Role in the project • Main tasks and responsibilities 	<p>10/2014– 03/2017 EU Programme ERANET FORESTERRA ""Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration", "Global Change Impacts on Wildland Fire Behaviour and Uses in Mediterranean Forest Ecosystems, towards a « wall less » Mediterranean Wildland Fire Laboratory" (MEDWILDFIRELAB). 2.5 years, 43.400,00 euro.</p> <p>CREA partner. Research on the characteristics of vegetation for forest fire control.</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Duration and extent of funding • Role in the project • Main tasks and responsibilities 	<p>01/2012– 12/2015 7° EU FP Programme ERANET FORESTERRA ""Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration", FORESTERRA (project number 291832). 4 years, 100.000,00 euro.</p> <p>Steering Committee member Dissemination activities and planning on aspects related to forest ecology.</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Duration and extent of funding • Role in the project • Main tasks and responsibilities 	<p>07/2012– 06/2016 7° EU FP Programme "Marie Curie People Career Integration Grant for career development". EXPLO3RVOC - "Ecophysiological control by Mediterranean forest ecosystems on the exchange processes of ozone and reactive Volatile Organic Compounds with a polluted atmosphere". Call identifier FP7-PEOPLE-2012-CIG, project n. 321711. 4 years, 100.000,00 euro.</p> <p>Coordinator. Measurement and modeling of VOC and greenhouse gas exchanges between forest ecosystems and the atmosphere.</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Durata ed eventuale finanziamento • Role in the project • Main tasks and responsibilities 	<p>01/2013– 01/2017 EU COST Action FP1204 "Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests (GREENINURB)". 4 years.</p> <p>National delegate, member of the Management Committee. Coordinator of the WP entitled "Effects of Climate change on urban trees".</p>
<ul style="list-style-type: none"> • Reference period • Type of project • Durata ed eventuale finanziamento • Role in the project 	<p>01/2013– 02/2016 PRIN 2010/2011 "Progettare la città verde nell'era del cambiamento globale: funzioni degli alberi urbani e loro adattabilità nelle future condizioni climatiche (TreeCity)." 3 years, 52.000,00 euro.</p> <p>Subcontractor.</p>

<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Coordination of the research activity on ozone deposition on urban vegetation and parameterization of deposition models.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project • Finanziamento • Role in the project 	<p>01/2014– 11/2015 Convention with the Academy of Sciences called the XL "Platform for monitoring the ecophysiological parameters of the forest vegetation of the Castelporziano estate" - CASTEL3. 15.000,00 euro. Coordinator.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Responsible for the experimental site of Castelporziano, to determine the effect of pollution on the ecophysiology of a holm oak through continuous measurements of carbon flows.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project 	<p>01/2013– CURRENTLY 7° EU FP Program, Research Infrastructures for Atmospheric Research ACTRIS "Aerosols, Clouds, and Trace gases Research InfraStructure Network".</p>
<ul style="list-style-type: none"> • Durata ed eventuale finanziamento 	<p>4 years</p>
<ul style="list-style-type: none"> • Role in the project 	<p>Partner.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Contribution with monitoring and organization of experimental campaigns at the experimental site of Castelporziano, Rome.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project 	<p>01/2012– 12/2015 7° FP programme: ENV.2011.1.1.2-1 "The impact of atmospheric pollution on European land ecosystems and soil in a changing climate" (ECLAIRE, Call identifier FP7-ENV-2011, proposal n. 282910).</p>
<ul style="list-style-type: none"> • Durata ed eventuale finanziamento 	<p>4 years.</p>
<ul style="list-style-type: none"> • Role in the project 	<p>Partner,</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Measure ozone and BVOC flows of forest vegetation.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project 	<p>01/2012– 12/2014 LIFE EU Programme n. 10 ENV/FR/208 "Ozone and Climate Change Impacts on French and Italian Forests: Refinement of criteria and thresholds for forest protection". (FO3REST).</p>
<ul style="list-style-type: none"> • Durata ed eventuale finanziamento 	<p>4 years.</p>
<ul style="list-style-type: none"> • Role in the project 	<p>Partner.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Responsible for the experimental site of Castelporziano, to determine the effect of pollution on the ecophysiology of a holm oak through continuous measurements of carbon and ozone fluxes.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project 	<p>03/2012– 04/2012 Award winner for internship abroad promoted by CREA. Scientific visit to the NCAR (National Center for Atmospheric Research), Boulder, Colorado, USA.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Research collaboration with Dr. Alex Guenther as part of modeling activities to calculate BVOC emissions from forest ecosystems.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project • Finanziamento • Role in the project 	<p>07/2012– 07/2013 Convention with the Academy of Sciences called the XL "Platform for monitoring the ecophysiological parameters of the forest vegetation of the Castelporziano estate" - CASTEL2. 20.000,00 euro. Coordinator.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Responsible for the experimental site of Castelporziano, to determine the effect of pollution on the ecophysiology of a holm oak through continuous measurements of carbon fluxes.</p>
<ul style="list-style-type: none"> • Reference period <ul style="list-style-type: none"> • Type of project • Finanziamento • Role in the project 	<p>11/2011– 06/2012 Convention with the Academy of Sciences called the XL "Study of the exchange between the biosphere and the atmosphere of the Mediterranean scrubland" - CASTELTOF. 10.000,00 euro. Coordinator.</p>
<ul style="list-style-type: none"> • Main tasks and responsibilities 	<p>Responsible for the experimental site of Castelporziano, to determine the effect of pollution on the ecophysiology of a holm oak through continuous measurements of carbon fluxes.</p>

- Reference period
- Type of project
- Duration and extent of funding
- Role in the project
- Main tasks and responsibilities

12/2008– 12/2010

7° FP "Marie Curie People Career Integration Outgoing Fellowship". Acronimo: CITROVOC - "An assessment of VOC and ozone fluxes in crop plantations from the leaf to the ecosystem level. Relationships with the plant physiology and implications for air quality". FP7-PEOPLE-Iof-2008, project n. 235607.

3 years, 235.544,20 euro.

Researcher in charge.

Measurement and modeling of gaseous exchanges, coordination of experimental campaigns in California-central valley.

ACADEMIC TITLES

- Reference period
- Titles

05/03/2014-05/03/2020

Based on expert evaluation, associated professor in Bothany, Plant physiology, Ecology and Forestry, full professor in Forestry and Ecology disciplines. (D.D. 222 del 20/07/2012)

PHD ADVOSOR, POSTDOCS AND TEACHING EXPERIENCE

- Reference period
- Type of commitment
- Role

11/2016-11/2019

PhD in "Forest Ecology and Environmental Technologies (XXXII cycle)" at the University of Tuscia, Viterbo.

Member of the teaching staff of DIBAF, University of Tuscia.

- Reference period
- Type of commitment
- Main subjects
- Role

11/2015-11/2018

PhD in "Forest Ecology and Environmental Technologies (XXXI cycle)" at the University of Tuscia, Viterbo.

Greenhouse gas fluxes in forest ecosystems.

Tutor of the candidate Adriano Conte.

- Reference period
- Type of commitment
- Main subjects
- Role

06-07/2015

COST FP0903 international course "Implementation of the green infrastructure approach" at the Pieve Tesino (TR) study center.

Course dedicated to ecosystem services offered by urban vegetation.

Teacher (14 hours).

- Reference period
- Type of commitment
- Main subjects
- Role

05-06/06/2014

Biodiversity and Bioindication School of SISS, CREA-RPS, Rome.

Soils regulate gaseous exchanges in the atmosphere: flow theory and methods of investigation.

Teacher (4 hours).

- Reference period
- Type of commitment
- Main subjects
- Role

02/2013-02/2016

PhD in "Forest Ecology" XXIX cycle at the University of Tuscia, Viterbo.

Greenhouse gas flows in forest ecosystems (Flavia Savi).

Tutor.

- Reference period
- Type of commitment
- Main subjects
- Role

09/2013-09/2016

PhD in "Anatomy and Physiology of Plants", Mendel University, Czech Republic.

VOC fluxes in forest ecosystems.

Tutor of Stanislav Juran.

- Reference period
- Type of commitment
- Main subjects

01/2013-01/2016

PhD in VOC emissions physiology, CNRS-Institut Méditerranéen de Biodiversité et d'Ecologie, France.

VOC fluxes in forest ecosystems.

- Role Panelist, Amelie Saunier candidate.
- Reference period **09/2015**
- Type of commitment PhD in Chemistry, University of Paris-Saclay, France..
 - Main subjects OH reactivity measurements in the Mediterranean region.
 - Role Panelist of the candidate Nora Zannoni.
- Reference period **06/2014-CURRENTLY**
- Type of commitment Postdoc at CREA-RPS..
 - Main subjects Modeling activities of ecosystem services offered by urban vegetation.
 - Role Tutor of Dr. Alessandro Alivernini.
- Reference period **10/2013**
- Type of commitment International course COST FP0903 "Ecophysiological Field Techniques in Climate Change and Pollution Research" in Tenerife, Spain.
 - Main subjects "Theoretical backgrounds about the usage of eddy covariance techniques".
 - Role Teacher (14 hours).
- Reference period **05/2013**
- Type of commitment Training school "Flux measurement techniques for non CO2 GHG: methods, sensors, databases and modelling", Poland,
 - Main subjects "Fast and slow ozone sensors, measuring ozone fluxes with eddy covariance, partitioning ozone fluxes between stomatal and non-stomatal".
 - Role Teacher (5 hours).
- Reference period **12/2012**
- Type of commitment PON project - High-tech infrastructure for Integrated Climate-Environmental Monitoring at the CNR-IAMC headquarters in Calata Porta di Massa, Naples.
 - Main subjects "Introduction on biosphere-atmosphere interactions".
 - Role Teacher (4 hours).

EDUCATION AND TRAINING

- Reference period **11/2012**
- Host institution Stockholm Environment Institute, York, UK
- Object of training Fellowship (winner of international competitive tender) on modeling ozone damage on the vegetation project COST (Action FP0903).
- Reference period **08/2012**
- Host institution Institute of Bio- and Geosciences, Research Center Julich, Germany.
- Main subjects Fellowship (winner of international competitive tender) on gas exchanges and ground-level ozone formation by the VOCs, COST project (Action FP0903).
- Reference period **06/2009**
- Host institution Blodgett Forest research Center, California.
- Main subjects Installation, use and maintenance of experimental towers for atmospheric monitoring.
- Qualification achieved Certification.
- Reference period **01/2005– 04/2008**
- Host institution University of Tuscia, Viterbo.
- Main subjects Biotic and abiotic stress effects on the physiology of agro-forest plants. Environmental modeling, gaseous exchanges, use of foliar cuvettes, micrometeorology, Eddy Covariance. Involved in European projects (VOCBAS - Volatile Organic Compounds in the Biosphere-Atmosphere System, ACCENT-Atmospheric Composition Change The European Network of Excellence) engaged in the study of VOCs, Ozone and phytoremediation in agro-forest ecosystems.

- Qualification achieved **PhD (Ph.D.) in Forest Ecology. Certificate issued by the University of Tuscia, prot. No. 003208 of 23/04/2008.**

- Reference period **10/2007– 11/2007**
- Host institution University di Berkeley, California, USA.
- Main subjects Short-Term Mobility (winner of competitive tender) to study ozone and isoprenoid flows in forest ecosystems. Prot. No. 0051511 of 25/06/2007.

- Reference period **11/2007**
- Host institution St. Pierre d'Oleròn, France.
- Main subjects ACCENT-GEIA EU course on CO2 flows, biogenic / anthropogenic emissions into the atmosphere, modeling and atmospheric chemistry.
- Qualification achieved Certification.

- Reference period **03/2007**
- Host institution University di Helsinki, Hyytiälä field station, Finland.
- Main subjects Marie-Curie-iLEAPS training course "Integrated measurements over land ecosystems atmosphere boundaries".
- Qualification achieved Certification.

- Reference period **05/2007**
- Host institution University of Tuscia, alpine study center of Pieve Tesino, Trento.
- Main subjects III intensive course of advanced training for PhD students of research in the forest-environmental sector.
- Qualification achieved Certification.

- Reference period **01/2007– 02/2007**
- Host institution IONICON analytich GmbH, Obergurgl, Austria.
- Main subjects "PTR-MS (Proton Transfer Reaction – Mass Spectrometer) short training course".
- Qualification achieved Certification.

- Reference period **11/2006**
- Host institution University di Kuopio, Finland.
- Main subjects "ISONET - VOCBAS Short Course on Stable Isotopes, Plant VOCs and Secondary Organic Aerosols in Biosphere-Atmosphere Carbon Exchange"
- Qualification achieved Certification.

- Reference period **06/2006**
- Host institution Institute Phytosphere (ICG-III), Research Centre Jülich, Germany.
- Main subjects gas exchanges, ozone uptake and emission of terpenes in forest ecosystems.

- Reference period **08/2006**
- Host institution Physics department, University of Helsinki, Finland.
- Main subjects EU ACCENT fellowship Fellowship (winner of international competitive tender) on streams of terpenes in forest ecosystems.

- Reference period **03/2006**
- Host institution University of Tuscia, alpine study center of Pieve Tesino, Trento.
- Main subjects II intensive training course for PhD students in the forest-environmental sector.
- Qualification achieved Certification.

- Reference period **01/2006**
- Host institution Institute Phytosphere (ICG-III), Research Centre Jülich, Germany.
- Main subjects EU VOCBAS fellowship Fellowship (winner of international competitive tender) on gas exchanges, ozone uptake and emission of terpenes in forest ecosystems.
- Qualification achieved Certification.

- Reference period **10/2004**

- Host institution
- Qualification achieved
 - Votazione

Facoltà di Agraria, University of Tuscia, Viterbo.

Master degree in Forestry and Environmental Sciences (5-year system).
110/110 cum laude. Registration n. 1783, 12/10/2004.

LANGUAGES

- Reading skill
- Writing skill
- Ability to oral expression

ITALIAN

EXCELLENT
 EXCELLENT
 EXCELLENT

ENGLISH

EXCELLENT
 EXCELLENT
 EXCELLENT

FRENCH

GOOD
 GOOD
 GOOD

AWARDS

- Reference period
- Awarding institution
- Type of award

04/03/2016

UNASA (Unione Nazionale delle Accademie per le Scienze Applicate allo Sviluppo dell'Agricoltura, alla Sicurezza Alimentare ed alla Tutela Ambientale).

UNASA 2016 award (National Union of Academies for Applied Sciences in Agriculture Development, Food Safety and Environmental Protection) for publishing the best publication of the year 2015 in Forest Ecology, entitled: "Sustainability: Five steps for managing Europe's forests. " Published in Nature (519, 407-9.00: 10.1038 / 519407a). Certificate presented during the inauguration of the academic year, Turin.

- Reference period
- Awarding institution
- Type of award

18/09/2015

SISEF (Società Italiana di Selvicoltura ed Ecologia Forestale).

"i-forest" award for the best scientific publication of the two-year period 2013-2014 at the SISEF National Congress, Florence 15-18 September 2015. Attestation signed by the President SISEF Piermaria Corona.

- Reference period
- Awarding institution
- Type of award

26/03/2015

Accademia Italiana di Scienze Forestali.

Appointed "correspondent academic" in Florence. Certificate signed by President Orazio Ciancio on 26/03/2015.

- Reference period
- Awarding institution
- Type of award

07/02/2015

University of Sydney, Australia.

IRCA (International Researcher Collaboration Award) to perform a one-month research at the University of Sydney entitled "Linking carbon exchange fluxes across the soil, canopy and atmosphere continuum."

- Reference period
- Awarding institution
- Type of award

06/2012

Human Frontiers Science Program (HSFP).

Selected for having passed the first evaluation phase of the project: "Quantifying the antioxidant properties of isoprene under oxidative stress".

- Reference period
- Awarding institution
- Type of award

17-21/11/2010

Ministry of youth, Italy.

Selected among the Young Talents Italy and awarded in an event organized in Rome. Invitation signed by the General Director ANG Paolo Di Caro.

TECHNICAL SKILLS

Gaseous exchange measurement methodologies: dynamic system for measuring gas flows with foliar cuvettes; "sap flow" to measure the water transport inside the stems and branches; installation of light sensors, temperature, wind direction and intensity (sonic anemometers), soil and air humidity, precipitation, data logger for the automatic acquisition of high and low frequency data, maintenance (certified) of structures such as towers and experimental scaffolding on which this instrumentation is installed, CO2 analyzers, ozone, nitrogen oxides, PTRMS (Proton Transfer

Mass Spectrometer), GC-MS (Gas Chromatograph - Mass Spectrometer); micrometeorological techniques, Eddy Covariance to study gas flow at the level of the entire ecosystem; parameterizing environmental models to estimate forest productivity, damage and absorption of pollutants. Modeling of gaseous exchanges between forest ecosystems and the atmosphere through an advanced multi-layer approach that solves the energy balance.
Computer use: Microsoft operating systems and office package. Programming with R and Matlab.

PROFESSIONAL ACTIVITY OUTSIDE ACADEMIA

Passed the state examination for certification, enrolled in February 2006 at the order of agronomists and forestry of Rome with registration number 1738. Registration regularly carried out until 2011. Professional activity linked to the drafting of settlement plans and cadastre of the building of the province of Rome.

LICENCES OWNED

- Driving cat. A (2002) e cat. B (1999).
- Advanced scuba diver and rescue diver issued by PADI.
- First aid issued by PADI.
- APR pilot, drone of weight >4kg and <25kg.

DIRECTION AND RESEARCH RESPONSIBILITIES

- Reference period
- Type of responsibility

01/2011-currently

Responsible for the experimental site "Grotta di Piastra" within the Presidential estate of Castelporziano as a member of the "Forests" working group established by the scientific technical commission of the estate. Since 2015, designed as the National Coordinator of the forest sites of the ICOS-Integrated Carbon Observatory System, an EU ESFRI program that provides for monitoring of greenhouse gas flows in forest ecosystems for the next 10 years. The site in question is the only national level 1 site (the most equipped) candidate for the European network due to the importance of measures carried out using micrometeorological techniques. Certification of the coordination activity issued by prof. Nardone, President of the technical-scientific committee of the Presidential estate on 13/06/2016.

- Reference period
- Type of responsibility

17/08/2015-21/08/2015.

Assignment to replace the director of the CREA-RPS center for the tasks regulated in the appointment document with prot. n. 0032894 of 13/07/2015.

- Reference period
- Type of responsibility

14/03/2013-currently

Responsibility for management of activities and laboratories on behalf of the CRE-RPS Center Director, Anna Benedetti, service order no. 1 of 14/03/2016 in application of the II level directive:
1. Laboratory n. 13 - Biometeorology at the RPS headquarters in Rome.
2. Plant ecophysiology laboratory at the Tor Mancina experimental farm, Monterotondo, Rome.
3. Activities n. 13 - information and source of European / international funding and accounting for projects submitted.

INTERNATIONAL SCIENTIFIC EVENTS ORGANIZATION

- Reference period
 - Event
 - Role

10/10/-13/10/2017

Congresso Nazionale SISEF, Rome.

Member of the organizing committee, scientific committee and Program Chair.
<http://www.sisef.it/sisef/xi-congresso/?id=organizzazione>

- Periodo di riferimento
 - Event
 - Role

12/12/-14/12/2016

MEDWILDFIRELAB General Meeting and workshop on Forest Fires at FAO, Rome.

Member of the organizing committee, scientific committee and Program Chair.

- Reference period
 - Event
 - Role

26/06-01/07/2016

Gordon Research Conference on Biogenic hydrocarbons and the atmosphere. Girona, Spain.

Chairman of the session "Biogenics: Dynamics and Processing Within Canopies".
<https://www.grc.org/programs.aspx?id=14017>.

- Reference period **12-17/04/2015**
 - Event EGU-European Geosciences Union General Assembly 2015, Vienna.
 - Role Chairman “Biosphere-Atmosphere Exchange, Biosynthesis, and Oxidation of Volatile Organic Compounds Across Terrestrial and Marine Ecosystems”.
(<http://meetingorganizer.copernicus.org/EGU2015/orals/17661>).

- Reference period **29/06-04/07/2014**
 - Event Gordon Research Conference on Biogenic hydrocarbons and the atmosphere. Girona, Spain
 - Role Chairman “VOC emission in changing ecosystems”.
<https://www.grc.org/programs.aspx?id=14016>.

- Reference period **29/01/2014**
 - Event 27th Task Force Meeting of the ICP Vegetation”. Paris, France.
 - Role Chair of the session “Ozone”. https://colloque6.inra.fr/27th_icp_vegetation/Program.

- Reference period **03-07/12/2012**
 - Event AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA.
<http://fallmeeting.agu.org/2012/scientific-program/>.
 - Role Chairman (oral + poster): “Measurements and Modeling of Biogenic Volatile Organic Compounds Across Terrestrial and Marine Ecosystems and the Atmosphere”.

- Reference period **04-07/12/2011**
 - Event AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA.
 - Role Chairman: “Exchange Dynamics of Volatile Organic Compounds between Plant Ecosystems and the Atmosphere”.

- Periodo di riferimento **12/2009**
 - Event AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA.
 - Role Chairman: “Measuring and Modeling the Emission of Biogenic Volatile Organic Compounds From Crop and Forest Ecosystems” e “Effects of High Tropospheric Ozone on Plant Ecosystems and Mechanisms of Ozone Uptake” AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA (<http://www.agu.org/meetings/fm09/>).

SCIENTIFIC SOCIETIES AND EDITORIAL ACTIVITIES

- Reference period **01/2016-12/2019**
- Scientific society SISEF- Società Italiana di Ecologia Forestale. (Italian Society of Forest Ecology)
 - Role Elected member of the board of directors, member since 2012.

- Reference period **Since 01/2015**
- Scientific society Accademia Italiana di Scienze Forestali (Italian Academy of Forest Sciences).
 - Role Correspondent academic.

- Reference period **Since 01/2011**
- Scientific society European Geoscience Union.
 - Role

- Reference period **Since 01/2008**
- Scientific society American Geophysical Union.
 - Role Associated.

- Reference period
• Scientific society
• Role
Since 01/2016
SISEF
Curator of the SISEF "Pollution and Forests" working group.
(<https://sisef.org/gdl/inquinamento/>)
- Reference period
• Journal
• Role
Since 01/2018
Frontiers in Forests and Global Change.
Editorial board member (<https://www.frontiersin.org/journals/forests-and-global-change#editorial-board>).
- Reference period
• Journal
• Role
Since 01/2017
Agricultural and Forest Meteorology.
Editorial board member (<https://www.journals.elsevier.com/agricultural-and-forest-meteorology/editorial-board>).
- Reference period
• Journal
• Role
Since 01/2015
i-forest.
Editorial board member (<http://www.sisef.it/iforest/static/?id=board>).
- Reference period
• Journal
Since 2008
European Journal of Forest research, Biogeosciences, Atmospheric Chemistry and Physics, Trees, Environmental Pollution, Atmospheric Environment, Physiologia Plantarum, Global Change Biology, Agricultural and Forest meteorology, Foresta, iforest, Journal of Experimental Botany, Science of the total Environment, Journal of Geophysical Research.
• Role
Referee.

MEMBERSHIP OF SCIENTIFIC ORGANIZATION

- Reference period
• Name of organization
• Role
10/2017-10/2021
ILEAPS-Integrated Land Ecosystem Atmosphere Process Study
(<http://www.ileaps.org/content/scientific-steering-committee-ssc>)
Scientific Steering Committee member.
- Reference period
• Name of organization
• Role
03/2016-31/2020
CSNA-Commissione Scientifica Nazionale per la ricerca in Antartide
(<http://www.csna.it/composizione.html>)
Member of the commission appointed by Minister of Research with prot. n. 0000169 of 21/03/2016. Responsibility in the allocation of funds for scientific research in Antarctica through the PNRA-National Research Plan in Antarctica.
- Reference period
• Name of organization
• Role
02/2015-Currently
Commission on editorial resources of CREA. Nomination Decree CREA n. 96 of 12/02/15 and renewal n. 123 of 12/02/2016.
Evaluation of subscriptions to the journals of the institution on the basis of the scientific needs of the researchers.

EVALUATOR OF NATIONAL AND INTERNATIONAL PROJECTS

- Reference period
• Type of grant, awarding institution
03/2017
COST (European Cooperation in Science and Technology).
- Reference period
• Type of grant, awarding institution
09/2016
National Science Foundation, USA, programme IOS - Integrative Ecologi Physiology.

- Reference period **06/2016**
- Type of grant, awarding institution MIUR-Programma PRIN 2015. Revisore e rapporteur di progetto.
- Reference period **05/2016**
- Type of grant, awarding institution VQR (Valutazione Qualità della Ricerca) 2011-14.
- Reference period **02/2016**
- Type of grant, awarding institution NWO-Netherland Organization for Scientific Research. User Support Programme Space Research.
- Reference period **07/2015**
- Type of grant, awarding institution CRB-Citrus research Board of California.
- Reference period **02/2015**
- Type of grant, awarding institution Israel Science foundation-2015 Individual Research Grants.
- Reference period **08/2011**
- Type of grant, awarding institution ERC-European Research Council, advanced Grant 2011.
- Reference period **05/2011**
- Type of grant, awarding institution NERC-Natural Environment Research Council, UK. Standard Grant 2011.
- Reference period **08/2009**
- Type of grant, awarding institution EUFAR- European Facility for Airbourne Research. Transnational Access to research aircraft

PUBLICATIONS

Articles in peer-reviewed international journals: 102

Articles in popular magazines, extended proceedings and book chapters: 22

Oral reports at national and international conferences: 71

Posters presented at national and international conferences: 59

Open source tools on the web: 4

Citations: 3244 (Scopus), 4413 (Google Scholar)

H-index: 33 (Scopus), 37 (Google Scholar)

1. Otu-larbi, F., Conte, A., **Fares, S.**, Wild, O., Ashworth, K., 2021. FORCAsT-gs : Importance of Stomatal Conductance Parameterization to Estimated Ozone Deposition Velocity. J. Advances Model. Earth Syst. 13, 1–23. <https://doi.org/10.1029/2021MS002581>
2. Conte, A., Otu-Larbi, F., Alivernini, A. Hoshika, Y., Paoletti, E., Ashworth, K., **Fares, S***, 2021. Exploring new strategies for ozone-risk assessment: A dynamic-threshold case study. Environmental Pollution 287, 11760- doi: 10.1016/j.envpol.2021.117620. **Corresponding author.*
3. George, J., Yang, W., Kobayashi, H., Biermann, T., Carrara, A., Cremonese, E., Cuntz, M., **Fares, S.**, Gerosa, G., Grünwald, T., Hase, N., Heliasz, M., Ibrom, A., Knohl, A., Kruijt, B., Lange, H., Limousin, J., Loustau, D., Luke, P., Marzuoli, R., Meelis, M., Montagnani, L., Neiryneck, J., Peichl, M., Rebmann, C., Schmidt, M., Ramon, F., Serrano, L., Soudani, K., Vincke, C., Pisek, J., 2021. Method comparison of indirect assessments of understory leaf area index (LAI u): A case study across the extended network of ICOS forest ecosystem sites in Europe. Ecol. Indic. 128, 107841. <https://doi.org/10.1016/j.ecolind.2021.107841>
4. Niu B, Zhang X, Piao S, Janssens IA, Fu G, He Y, Zhang Y, Shi P, Dai E, Yu C, Zhang J, Yu G, Xu M, Wu J, Zhu L, Desai AR, Chen J, Bohrer G, Gough CM, Mammarella I, Varlagin A, **Fares S**, Zhao X, Li Y (2021). Warming homogenizes apparent temperature sensitivity of ecosystem respiration. Science Advances. 7: eabc7358. doi 10.1126/sciadv.abc7358.

5. Chu, Housen Luo Z, ... Biraud C, Torn MS, Metzger S, Kumar J, Arain MA, Arkebauer TJ, Baldocchi D, Bernacchi C, Billesbach D, Black TA, Blanken PD, Bohrer G, Bracho R, Brown S, Brunsell NA, Chen J, Chen X, Clark K, Desai AR, Duman T, Durden D, **Fares S**, ... (2021). Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. *Agricultural and Forest Meteorology*. 301–302: 108350. - doi: 10.1016/j.agrformet.2021.108350.
6. Paoletti E, Feng Z, **Fares S**, Sicard P, Agathokleous E (2021). Editorial: Interactions Between Ozone Pollution and Forest Ecosystems. *Front. For. Glob. Change* 3:604466. doi: 10.3389/ffgc.2020.604466.
7. Pisek J, Erb A, Korhonen L, Biermann T, Carrara A, Cremonese E, Cuntz M, **Fares S**, Gerosa G, Grünwald T, Hase N, Heliasz M, Ibrom A, Knohl A, Kobler J, Kruijt B, Lange H, Leppänen L, Limousin J-M, Serrano FRL, Loustau D, Lukeš P, Lundin L, Marzuoli R, Mölder M, Montagnani L, Neiryneck J, Peichl M, Rebmann C, Rubio E, Santos-Reis M, Schaaf C, Schmidt M, Simioni G, Soudani K, Vincke C (2020). Retrieval and validation of forest background reflectivity from daily MODIS bidirectional reflectance distribution function (BRDF) data across European forests. *Biogeosciences* 18. 621-623 - <https://doi.org/10.5194/bg-18-621-2021>.
8. Emmerichs T, Kerkweg A, Ouwersloot H, **Fares S**, Mammarella I (2021). A revised dry deposition scheme for land – atmosphere exchange of trace gases in ECHAM / MESSy v2 .54. *Geosci. Model Dev.*, 14, 495–519.
9. **Fares S***, Conte A, Alivernini A, Chianucci F, Grotti M, Zappitelli I, Petrella F, Corona P (2020). Testing Removal of Carbon Dioxide, Ozone, and Atmospheric Particles by Urban Parks in Italy. *Environmental Science & Technology*. 54: 14910–14922. - doi: 10.1021/acs.est.0c04740. **Corresponding author.*
10. Hoshika Y, Brillì F, Baraldi R, **Fares S**, Carrari E, Zhang L, Badea O, Paoletti E (2020). Ozone impairs the response of isoprene emission to foliar nitrogen and phosphorus in poplar. *Environmental Pollution*. 267: 115679. - doi: 10.1016/j.envpol.2020.115679.
11. Otu-Larbi F, Conte A, **Fares S**, Wild O, Ashworth K (2020). Current and future impacts of drought and ozone stress on Northern Hemisphere forests. *Global Change Biology*. 1–17. - doi: 10.1111/gcb.15339.
12. Fu Z, Ciais P, Bastos A, Stoy PC, Yang H, Green JK, Wang B, Yu K, Huang Y, Arriga N, Roland M, Peichl M, Migliavacca M ... **Fares S**. et al. (2020). Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. *Philosophical Transactions of the Royal Society B*. 20190747.
13. Graf A, Klosterhalfen A, Arriga N, Bernhofer C, Bogen H, Bornet F, Brüggemann N, Brümmer C, Buchmann N, Chi J, Chipeaux C, Cremonese E, Cuntz M, Dušek J, El-Madany TS, **Fares S**, ... Vereecken H (2020). Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*. 375: 20190524. - doi: 10.1098/rstb.2019.0524.
14. Pastorello G, Trotta C, ... **Fares S**.... Papale D (2020). The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*. 7: 225. - doi: 10.1038/s41597-020-0534-3.
15. Sicard P, Marco A De, Carrari E, Dalstein L, Hoshika Y, Badea O, Pitar D, **Fares S**, Conte A (2020). Epidemiological derivation of flux - based critical levels for visible ozone injury in European forests. *Journal of Forestry Research*. - doi: 10.1007/s11676-020-01191-x.
16. Savi F, Nemitz E, Coyle M, Aitkenhead M, Frumau K, Gerosa G, Finco A, Gruening C, Goded I, Loubet B, Stella P, Ruuskanen T, Weidinger T, Horvath L, Zenone T, and **Fares S*** (2020). Neural Network Analysis to Evaluate Ozone Damage to Vegetation Under Different Climatic Conditions. *Frontiers in Forests and Global Change* 3: 1–14. - doi: 10.3389/ffgc.2020.00042. **Corresponding author.*
17. Yuan X, Li S, Feng Z, Xu Y, Shang B, **Fares S**, Paoletti E (2020). Response of isoprene emission from poplar saplings to ozone pollution and nitrogen deposition depends on leaf position along the vertical canopy profile. *Environmental Pollution*. 265: 114909. - doi: 10.1016/j.envpol.2020.114909.
18. Clifton OE, Paulot F, Fiore AM, Horowitz LW, Correa G, Baublitz CB, **Fares S**, Goded I, Goldstein AH, Gruening C, Hogg AJ, Loubet B, Mammarella I, Munger JW, Neil L, Stella P, Uddling J, Vesala

- T, Weng E (2020). Influence of dynamic ozone dry deposition on ozone pollution. *Journal of Geophysical Research: Atmospheres*, 125 e2020JD032398. - doi: 10.1029/2020jd032398.
19. Clifton OE, Fiore AM, Massman WJ, Baublitz CB, Coyle M, Emberson L, **Fares S**, Farmer DK, Gentine P, Gerosa G, Guenther AB, Helmig D, Lombardozzi DL, Munger JW, Patton EG, Pusede SE, Schwede DB, Silva SJ, Sörgel M, Steiner AL, Tai APK (2020). Dry Deposition of Ozone over Land: Processes, Measurement, and Modeling. *Reviews of Geophysics* 58 - doi: 10.1029/2019rg000670.
 20. Hoshika Y, **Fares S**, Pellegrini E, Conte A, Paoletti E (2020). Water use strategy affects avoidance of ozone stress by stomatal closure in Mediterranean trees—A modelling analysis. *Plant Cell and Environment*. 43: 611–623. - doi: 10.1111/pce.13700.
 21. **Fares S***, Alivernini A, Conte A, Maggi F (2019). Ozone and particle fluxes in a Mediterranean forest predicted by the AIRTREE model. *Science of The Total Environment*. - doi: 10.1016/j.scitotenv.2019.05.109 *Corresponding author.
 22. Paoletti E, Alivernini A, Anav A, Badea O, Carrari E, Chivulescu S, Conte A, Ciriani ML, Dalstein-richier L, Marco A De, **Fares S**, Fasano G, Giovannelli A, Lazzara M, Leca S, Materassi A, Moretti V, Pitar D, Popa I, Sabatini F, Salvati L, Sicard P, Sorgi T, Hoshika Y (2019). Toward stomatal-flux based forest protection against ozone: The MOTTLES approach. *Science of the Total Environment*. 691: 516–527. - doi: 10.1016/j.scitotenv.2019.06.525.
 23. Lin M, Malyshev S, Shevliakova E, Paulot F, Horowitz LW, **Fares S**, Mikkelsen TN, Zhang L (2019). Sensitivity of ozone dry deposition to ecosystem-atmosphere interactions: A critical appraisal of observations and simulations. *Global Biogeochemical Cycles* 33. doi: 10.1029/2018GB006157.
 24. Fitzky AC, Sandén H, Karl T, **Fares S**, Calfapietra C, Grote R, Saunier A, Rewald B (2019). The Interplay Between Ozone and Urban Vegetation — BVOC Emissions, Ozone Deposition, and Tree Ecophysiology. *Frontiers in Forests and Global Change* 2: 1–17. - doi: 10.3389/ffgc.2019.00050.
 25. Hoshika Y, De Carlo A, Baraldi R, Neri L, Carrari E, Agathokleous E, Zhang L, **Fares S**, Paoletti E (2019). Ozone-induced impairment of night-time stomatal closure in O₃-sensitive poplar clone is affected by nitrogen but not by phosphorus enrichment. *Science of The Total Environment*. 692: 713–722. - doi: 10.1016/j.scitotenv.2019.07.288.
 26. Ferrara C, Marchi M, Fabbio G, **Fares S**, Bertini G, Piovosi M, Salvati L (2019). Exploring Nonlinear Intra-Annual Growth Dynamics in *Fagus sylvatica* L. Trees at the Italian ICP-Forests Level II Network. *Forests* 10: 584. doi:10.3390/f10070584.
 27. Conte, A., **Fares S.**,* Salvati, L., Savi, F., Matteucci, G., Mazzenga, F., Spano, D., Sirca, C., Marras, S., Galvagno, M., Cremonese, E., Montagnani, L. (2019). Ecophysiological Responses to Rainfall Variability in Grassland and Forests Along a Latitudinal Gradient in Italy. *Frontiers in Forests and Global Change* 2 (May):1–12. Doi: 10.3389/ffgc.2019.00016. *Corresponding author.
 28. Giovannelli A, Traversi ML, Anichini M, Hoshika Y, **Fares S**, Paoletti E (2019). Effect of Long-Term vs Short-Term Ambient Ozone Exposure on Radial Stem Growth, Sap Flux and Xylem Morphology of O₃-Sensitive Poplar Trees. *Forests* 1–21. Doi: 10.3390/f10050396.
 29. Juráň, S., Šigut, L., Holub, P., **Fares S**, Klem, K., Grace, J., Urban, O. (2019). Ozone Flux and Ozone Deposition in a Mountain Spruce Forest Are Modulated by Sky Conditions. *Science of the Total Environment* 672:296–304. Doi: 10.1016/j.scitotenv.2019.03.491.
 30. Feng Z., Yuan X., **Fares S.**, Loreto F., Li P., Hoshika, Y., & Paoletti E. (2019). Isoprene is more affected by climate drivers than monoterpenes: a meta-analytic review on plant isoprenoid emissions. *Plant, Cell & Environment* 42:1939–1949. doi: 10.1111/pce.13535.
 31. Roeland S, Moretti M, Humberto J, Cristina A, Amorim J., Branquinho, C., **Fares S.**, Morelli F., Niinemets U., Paoletti E., Pinho P., Sgrigna G., Stojanovski, V., Tiwary A., Sicard P., Calfapietra C. (2019). Towards an integrative approach to evaluate the environmental ecosystem services provided by urban forest. *Journal of Forestry Research* 30: 1981–1996. Doi: 10.1007/s11676-019-00916-x.
 32. De Marco, A. Proietti C., Anav A., Ciancarella L., Elia I. D., **Fares S.**, ... Leonardi C. (2019). Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. *Environment International*, 125: 320–333. <https://doi.org/10.1016/j.envint.2019.01.064>.

33. Proietti C., Anav A., Vitale M., **Fares S.**, Fornasier M. F., Screpanti A., ... De Marco A. (2019). A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. *Climate* 7, 42. Doi:10.3390/cli7030042.
34. Sallustio L., Perone A., Vizzarri M., Corona P., **Fares S.**, Cocozza C., Tognetti R., Lasserre B., Marchetti M., (2019). The green side of the grey: Assessing greenspaces in built-up areas of Italy. *Urban Forestry & Urban Greening* 37: 147-153. doi:10.1016/j.ufug.2017.10.018.
35. Calzone A., Podda A., Lorenzini G., Maserti B. E., Carrari E., Deleanu, E., Hoshika Y., Haworth M., Nali C., Badea O., Pellegrini E., **Fares S.**, Paoletti, E. (2019). Cross-talk between physiological and biochemical adjustments by *Punica granatum* cv. Dente di cavallo mitigates the effects of salinity and ozone stress. *Science of The Total Environment* 656: 589–597. Doi: 10.1016/j.scitotenv.2018.11.402.
36. Finco A., Coyle M., Nemitz E., Marzuoli R., Chiesa M., Loubet B., **Fares S.**, Diaz-Pines E., Gasche R., Gerosa G. (2018). Characterisation of ozone deposition to a mixed oak-hornbeam forest - Flux measurements at 5 levels above and inside the canopy and their interactions with nitric oxide. *Atmos. Chem. Phys.* 18: 17945–17961, <https://doi.org/10.5194/acp-18-17945-2018>.
37. Brillì F., **Fares S.**, Ghirardo A., de Visser P., Calatayud V., Muñoz A., Annesi-Maesano I., Sebastiani F., Alivernini A., Varriale V., Menghini F., 2018. Plants for Sustainable Improvement of Indoor Air Quality. *Trends Plant Sci.* 23(6): 507-512 doi:10.1016/j.tplants.2018.03.004.
38. Ducker J.A., Holmes C.D., Keenan T.F., **Fares S.**, Mammarella I., Munger W.J., Schnell J. (2018). Synthetic ozone deposition and stomatal uptake at flux tower sites. *Biogeosciences* 15: 5395-5413 doi 10.5194/bg-15-5395-2018.
39. Alivernini A., **Fares S.**, Ferrara C., Chianucci F. (2018). An objective image analysis method for estimation of canopy attributes from digital cover photography. *Trees - Structure and Function* 32(3): 713-723 doi:10.1007/s00468-018-1666-3.
40. **Fares S.***, Conte A., Chabbi A. (2018). Ozone flux in plant ecosystems: new opportunities for long-term monitoring networks to deliver ozone-risk assessments. *Environ. Sci. Pollut. Res.* 25 (9): 8240-8248. doi:10.1007/s11356-017-0352-0. **Corresponding author.*
41. Fusaro L., Mereu S., Salvatori E., Agliari E., **Fares S.**, Manes F. (2017). Modeling ozone uptake by urban and peri-urban forest: a case study in the Metropolitan City of Rome. *Environ. Sci. Pollut. Res.* 25(9): 8190-8205 doi:10.1007/s11356-017-0474-4.
42. Langford B., Cash J., Acton W.J.F., Valach A.C., Hewitt C.N., **Fares S.**, Goded I., Gruening C., House E., Kalogridis A.-C., Gros V., Schafers R., Thomas R., Broadmeadow M., Nemitz E. (2017). Isoprene emission potentials from European oak forests derived from canopy flux measurements: An assessment of uncertainties and inter-algorithm variability. *Biogeosciences* 14: 5571–5594. doi: 10.5194/bg-14-5571-2017.
43. Bottalico F., Travaglini D., Chirici G., Garfi V., Giannetti F., Marco A. De, **Fares S.**, Marchetti M., Nocentini S., Paoletti E., Salbitano F., Sanesi G. (2017). A spatially-explicit method to assess the dry deposition of air pollution by urban forests in the city of Florence, Italy. *Urban For. Urban Green.* 27: 221–234. doi:10.1016/j.ufug.2017.08.013.
44. Ferrara C., Marchi M., **Fares S.**, Salvati L. (2017). Sampling strategies for high quality time-series of climatic variables in forest resource assessment. *iForest - Biogeosciences For.* 10, 739–745. doi:10.3832/ifor2427-010.
45. Marchi M., Ferrara C., Bertini G., **Fares S.**, Salvati L. (2017). A sampling design strategy to reduce survey costs in forest monitoring. *Ecol. Indic.* 81: 182–191. doi:10.1016/j.ecolind.2017.05.011.
46. **Fares S*.**, Bajocco S., Salvati L., Camarretta N., Dupuy J.-L., Xanthopoulos G., Guijarro M., Madrigal J., Hernando C., Corona P. (2017). Characterizing potential wildland fire fuel in live vegetation in the Mediterranean region. *Ann. For. Sci.* 74, 1. doi:10.1007/s13595-016-0599-5. **Corresponding author.*
47. Juráň S., Pallozzi E., Guidolotti G., **Fares S.**, Šigut L., Calfapietra C., Alivernini A., Savi F., Večeřová K., Křůmal K., Večeřa Z., Urban O. (2017). Fluxes of biogenic volatile organic compounds above temperate Norway spruce forest of the Czech Republic. *Agric. For. Meteorol.* 232: 500–513. doi:10.1016/j.agrformet.2016.10.005.
48. Hoshika Y., **Fares S.**, Savi F., Gruening C., Goded I., De Marco A., Sicard P., Paoletti E. (2017). Stomatal conductance models for ozone risk assessment at canopy level in two Mediterranean evergreen forests. *Agric. For. Meteorol.* 234–235: 212–221. doi:10.1016/j.agrformet.2017.01.005.

49. Grote R., Samson R., Alonso R., Amorim J.H., Cariñanos P., Churkina G., **Fares S.**, Thiec D. Le, Niinemets Ü., Mikkelsen T.N., Paoletti E., Tiwary A., Calfapietra C. (2016). Functional traits of urban trees: air pollution mitigation potential. *Front. Ecol. Environ.* 14(10): 543–550 doi:10.1002/fee.1426.
50. De Marco A., Sicard P., **Fares S.**, Tuovinen J.P., Anav A., Paoletti E. (2016). Assessing the role of soil water limitation in determining the Phytotoxic Ozone Dose (PODY) thresholds. *Atmos. Environ.* 147: 88–97. doi:10.1016/j.atmosenv.2016.09.066.
51. **Fares S***, Savi F., Fusaro L., Conte A., Salvatori E., Aromolo R., Manes F. 2016. Particle deposition in a peri-urban Mediterranean forest. *Environmental Pollution* 218: 1278-1286. doi 10.1016/j.envpol.2016.08.086. **Corresponding author.*
52. Yuan X., Calatayud V., Gao F., **Fares S.**, Paoletti E., Tian Y., Feng Z. (2016). Interaction of drought and ozone exposure on isoprene emission from extensively cultivated poplar. *Plant, Cell & Environment* 39: 2276–2287. <http://doi.org/10.1111/pce.12798>.
53. Savi F., Di Bene C., Canfora L.; Mondini C., **Fares S.** (2016). Environmental and biological controls on CH₄ exchange over an evergreen Mediterranean forest. *Agr. For. Met.* 226-227: 67-79 doi 10.1016/j.agrformet.2016.05.014.
54. Alivernini A., Barbati A., **Fares S.**, Corona, P. (2016). Unmasking forest borderlines by an automatic delineation based on airborne laser scanner. *International Journal of Remote Sensing* (37) 16: 3568-3583 doi: 10.1080/01431161.2016.1201225.
55. Carriero G., Brunetti C., **Fares S.**, Hayes F., Hoshika Y., Mills G., Tattini M., Paoletti E. (2016). BVOC responses to realistic nitrogen fertilization and ozone exposure in silver birch. *Environ. Pollut.* 213: 988-95. doi:10.1016/j.envpol.2015.12.047.
56. Acton W. J. F., Schallhart S., Langford B., Valach A., Rantala P., **Fares S.**, ... Nemitz E. (2016). Canopy-scale flux measurements and bottom-up emission estimates of volatile organic compounds from a mixed oak and hornbeam forest in northern Italy. *Atmospheric Chemistry and Physics* 16: 7149–7170. doi:10.5194/acp-16-7149-2016.
57. **Fares S.***, Scarascia Mugnozza G., Corona P., Palahi M. (2015). Five steps for managing Europe's forests. *Nature* 519, 407–409 doi: 10.1038/519407a. **Corresponding author.*
58. Brilli F., Gioli B., **Fares S.**, Zenone T., Zona D., Gielen B., Loreto F., Janssens I. A., Ceulemans R. (2015). Rapid leaf development drives the seasonal pattern of volatile organic compound (VOC) fluxes in a “coppiced” bioenergy poplar plantation. *Plant. Cell Environ.* 39 (3): 539-555. doi/10.1111/pce.12638.
59. Fusaro L., Gerosa G., Salvatori E., Marzuoli R., Monga R., Kuzminsky E., Angelaccio C., Quarato D., **Fares S.** 2015. Early and late adjustments of the photosynthetic traits and stomatal density in *Quercus ilex* L. grown in an ozone-enriched environment. *Plant Biology* 18: 13–21. doi:10.1111/plb.12383.
60. Misztal P. K.; Hewitt C. N., ... **Fares S.**, ... Goldstein A. H. (2015). Atmospheric benzenoid emissions from plants rival those from fossil fuels. *Scientific Reports* 5:12064 doi 10.1038/srep12064.
61. Calfapietra C., Morani A., Sgrigna G., Di Giovanni S., Muzzini V., Pallozzi E., Guidolotti G., Nowak D., **Fares S.** (2015). Removal of ozone by urban and peri-urban forests: evidences from laboratory, field and modeling approaches. *Journal of Environmental Quality* 45(1): 224-233. doi:10.2134/jeq2015.01.0061.
62. **Fares S.***, Paoletti E., Loreto F., Brilli F. (2015). Bidirectional Flux of Methyl Vinyl Ketone and Methacrolein in Trees with Different Isoprenoid Emission under Realistic Ambient Concentrations. *Environ. Sci. Technol.* 49: 7735–7742. doi:10.1021/acs.est.5b00673. **Corresponding author.*
63. Gerosa G., Fusaro L., Monga R., Finco A., **Fares S.**, Manes F., Marzuoli R. (2015). A flux-based assessment of above and below ground biomass of Holm oak (*Quercus ilex* L.) seedlings after one season of exposure to high ozone concentrations. *Atmos. Environ.* 113: 41–49 doi:10.1016/j.atmosenv.2015.04.066.
64. Aromolo R., Savi F., Salvati L., Ilardi F., Moretti V., **Fares S.** (2015). Particulate matter and meteorological conditions in Castelporziano forest: a brief commentary. *Rend. Lincei* 26: 269-273. doi 10.1007/s12210-015-0414-5.
65. Wu I., Pullinen S., Andres Carriero G., **Fares S.**, Goldbach H., Hacker L., Kiendler-Scharr A., Kasal T., Kleist E., Paoletti E., Wahner E., Wildt J., Mentel T.F. (2015). Impacts of soil moisture on de-novo

- monoterpene emissions from European beech, Holm oak, Scots pine, and Norway spruce. *Biogeosciences* 12: 177-191.
66. **Fares S.***, Loreto F. 2015. Isoprenoid emissions by the Mediterranean vegetation in Castelporziano. *Rendiconti linnei* 26: 493-498. doi 10.1007/s12210-014-0331-z. *Corresponding author.
 67. **Fares S.***, Savi F., Muller J., Matteucci G., Paoletti, E. 2014. Simultaneous measurements of above and below canopy ozone fluxes help partitioning ozone deposition between its various sinks in a Mediterranean Oak Forest. *Agricultural and Forest Meteorology* 198-199: 181-191. doi:10.1016/j.agrformet.2014.08.014. *Corresponding author.
 68. Morani A., Nowak D., Hirabayashi S., Guidolotti G., Medori M., Muzzini V., **Fares S.**, Scarascia Mugnozza G., Calfapietra, C. (2014). Comparing modeled ozone deposition with field measurements in a periurban Mediterranean forest. *Environmental Pollution* 195: 202-209. Doi 10.1016/j.envpol.2014.08.031.
 69. Niinemets U., **Fares S.**, Harley P., Jardine K.J. (2014). Bidirectional exchange of biogenic volatiles with vegetation: emission sources, reactions, breakdown and deposition. *Plant. Cell Environ.* 37 (8): 1790-1809. doi:10.1111/pce.12322.
 70. Savi F., **Fares S.** (2014). Ozone dynamics in a Mediterranean Holm oak forest: comparison among transition periods characterized by different amounts of precipitation. *Annals of Silvicultural Research* 38: 1–6. Doi 10.12899/asr-801.
 71. Kemper C., **Fares S.***, Ciccioli P. (2014). A highly spatially resolved GIS-based model to assess the isoprenoid emissions from key Italian ecosystems. *Atmos. Environ.* 96: 50–60. doi:10.1016/j.atmosenv.2014.07.012. *Corresponding author.
 72. Gentner D.R., Ormeño E., **Fares S.**, Ford T.B., Weber R., Park J., Brioude J., Angevine W.M. (2014). Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality. *Atmospheric Chemistry and Physics* 14: 5393–5413. doi:10.5194/acp-14-5393-2014.
 73. Zona D., Gioli B., **Fares S.**, De Groot T., Pilegaard K., Ibrom A., Ceuleman R. (2014). Environmental controls on ozone fluxes in a poplar plantation in Western Europe. *Environ. Pollut.* 184: 201–210. doi:10.1016/j.envpol.2013.08.032.
 74. Park J.-H., **Fares S.**, Weber R., Goldstein, A. H. (2014). Biogenic volatile organic compound emissions during BEARPEX 2009 measured by eddy covariance and flux–gradient similarity methods. *Atmos. Chem. Phys.* 14: 231–244. doi:10.5194/acp-14-231-2014.
 75. **Fares S.***, Schnitzhofer R., Jiang X., Guenther A., Hansel A., Loreto F. (2013). Observations of Diurnal to Weekly Variations of Monoterpene-Dominated Fluxes of Volatile Organic Compounds from Mediterranean Forests: Implications for Regional Modeling. *Environ. Sci. Technol.* 47: 11073–11082. doi:10.1021/es4022156. *Corresponding author.
 76. Park J.-H., Goldstein A. H., Timkovsky J., **Fares S.**, Weber R., Karlik J., Holzinger R. (2013). Active Atmosphere-Ecosystem Exchange of the Vast Majority of Detected Volatile Organic Compounds. *Science* 341: 643–647. doi:10.1126/science.1235053.
 77. **Fares S.***, Vargas R., Detto M., Goldstein A.H., Karlik J., Paoletti E., Vitale M. (2013). Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. *Glob. Chang. Biol.* 9 (8): 2427-2443 doi:10.1111/gcb.12222. *Corresponding author.
 78. Calfapietra C., **Fares S.**, Manes F., Morani A., Sgrigna G., Loreto F. (2013). Role of Biogenic Volatile Organic Compounds (BVOC) emitted by urban trees on ozone concentration in cities: A review. *Environ. Pollut.* 183: 71-80. doi:10.1016/j.envpol.2013.03.012.
 79. **Fares S.***, Matteucci G., Scarascia Mugnozza G., Morani A., Calfapietra C., Salvator, E., Fusaro L., Manes F., Loreto F. (2013). Testing of models of stomatal ozone fluxes with field measurements in a mixed Mediterranean forest. *Atmos. Environ.* 67: 242–251. doi:10.1016/j.atmosenv.2012.11.007. *Corresponding author.
 80. Park J.-H., Goldstein A. H., Timkovsky J., **Fares S.**, Weber R., Karlik J., Holzinger R.H. (2013). Eddy covariance emission and deposition flux measurements using proton transfer reaction – time of flight – mass spectrometry (PTR-TOF-MS): comparison with PTR-MS measured vertical gradients and fluxes. *Atmospheric Chemistry and Physics* 13: 1439–1456. doi:10.5194/acp-13-1439-2013.

81. **Fares S.***, Park J.-H., Gentner D.R., Weber R., Ormeño E., Karlik J., Goldstein A. H. (2012). Seasonal cycles of biogenic volatile organic compound fluxes and concentrations in a California citrus orchard. *Atmos. Chem. Phys.* 12: 9865–9880. doi:10.5194/acp-12-9865-2012. **Corresponding author.*
82. **Fares S.***, Weber R., Park J.-H., Gentner D., Karlik J., Goldstein A.H. (2012). Ozone deposition to an orange orchard: Partitioning between stomatal and non-stomatal sinks. *Environ. Pollut.* 169: 258–266. doi:10.1016/j.envpol.2012.01.030. **Corresponding author.*
83. Jardine K.J., Monson R.K., Abrell L., Saleska S.R., Arneth A., Jardine A., Ishida F.Y., Serrano A.M.Y., Artaxo P., Karl T., **Fares S.**, Goldstein A.H, Loreto F., Huxman T. (2012). Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. *Glob. Chang. Biol.* 18: 973–984. doi:10.1111/j.1365-2486.2011.02610.x.
84. **Fares S.***, Gentner D.R., Park J.-H., Ormeno E., Karlik J., Goldstein A.H. (2011). Biogenic emissions from Citrus species in California. *Atmos. Environ.* 45: 4557–4568. doi:10.1016/j.atmosenv.2011.05.066. **Corresponding author.*
85. **Fares S.**, Mahmood T., Liu S., Loreto F., Centritto M. (2011). Influence of growth temperature and measuring temperature on isoprene emission, diffusive limitations of photosynthesis and respiration in hybrid poplars. *Atmos. Environ.* 45: 155–161. doi:10.1016/j.atmosenv.2010.09.036.
86. **Fares S.***, Park J.-H., Ormeno E., Gentner D.R., McKay M., Loreto F., Karlik J., Goldstein A.H. (2010). Ozone uptake by citrus trees exposed to a range of ozone concentrations. *Atmos. Environ.* 44: 3404–3412. doi:10.1016/j.atmosenv.2010.06.010. **Corresponding author.*
87. Ormeño E., Gentner D.R., **Fares S.**, Karlik J., Park J.H., Goldstein A.H. (2010). Sesquiterpenoid emissions from agricultural crops: correlations to monoterpene emissions and leaf terpene content. *Environ. Sci. Technol.* 44: 3758–64. doi:10.1021/es903674m.
88. **Fares S.***, Oksanen E., Lännenpää M., Julkunen-Tiitto R., Loreto F. (2010). Volatile emissions and phenolic compound concentrations along a vertical profile of *Populus nigra* leaves exposed to realistic ozone concentrations. *Photosynth. Res.* 104: 61–74. doi:10.1007/s11120-010-9549-5. **Corresponding author.*
89. **Fares S.***, McKay M., Holzinger R., Goldstein A.H. (2010). Ozone fluxes in a *Pinus ponderosa* ecosystem are dominated by non-stomatal processes: Evidence from long-term continuous measurements. *Agric. For. Meteorol.* 150, 420–431. doi:10.1016/j.agrformet.2010.01.007. **Corresponding author.*
90. **Fares S.***, Goldstein A., Loreto, F. (2010). Determinants of ozone fluxes and metrics for ozone risk assessment in plants. *J. Exp. Bot.* 61: 629–633. doi:10.1093/jxb/erp336. **Corresponding author.*
91. Davison B., Taipale R., Langford B., Misztal P., **Fares S.**, Matteucci G., Loreto F., Cape J.N., Rinne J., Hewitt C.N. (2009). Concentrations and fluxes of biogenic volatile organic compounds above a Mediterranean macchia ecosystem in western Italy. *Biogeosciences* 6: 1655–1670. doi:10.5194/bg-6-1655-2009.
92. **Fares S.**, Mereu S., Scarascia Mugnozza G., Vitale M., Manes F., Frattoni M., Ciccioli P., Gerosa G., Loreto F. (2009). The ACCENT-VOCBAS field campaign on biosphere-atmosphere interactions in a Mediterranean ecosystem of Castelporziano (Rome): site characteristics, climatic and meteorological conditions, and eco-physiology of vegetation. *Biogeosciences* 6: 1043–1058. doi:10.5194/bg-6-1043-2009.
93. Calfapietra C., **Fares S.**, Loreto F. (2009). Volatile organic compounds from Italian vegetation and their interaction with ozone. *Environ. Pollut.* 157: 1478–86. doi:10.1016/j.envpol.2008.09.048.
94. Velikova V., **Fares S.**, Loreto F. (2008). Isoprene and nitric oxide reduce damages in leaves exposed to oxidative stress. *Plant. Cell Environ.* 31, 1882–94. doi:10.1111/j.1365-3040.2008.01893.x.
95. **Fares S.***, Brillì F., Noguès I., Velikova V., Tsonev T., Dagli S., Loreto F. (2008). Isoprene emission and primary metabolism in *Phragmites australis* grown under different phosphorus levels. *Plant Biol. (Stuttg)*. 10: 38–43. doi:10.1055/s-2007-965429. **Corresponding author.*
96. **Fares S.***, Loreto F., Kleist E., Wildt J. (2008). Stomatal uptake and stomatal deposition of ozone in isoprene and monoterpene emitting plants. *Plant Biol. (Stuttg)*. 10: 44–54. doi:10.1055/s-2007-965257. **Corresponding author.*

97. Vitale M., Salvatori E., Loreto F., **Fares S.**, Manes F. (2008). Physiological responses of *Quercus ilex* Leaves to Water Stress and Acute Ozone Exposure Under Controlled Conditions. *Water Air and Soil Pollut.* 189: 113–125. doi:10.1007/s11270-007-9560-4.
98. Brillì F., Tricoli D., **Fares S.**, Centritto M., Loreto F. (2008). The use of branch enclosures to assess direct and indirect effects of elevated CO₂ on photosynthesis, respiration and isoprene emission of *Populus alba* leaves. *i-forest* 1: 49–54. doi.org/10.3832/ifor0429-0010049.
99. Loreto, F., **Fares S.** (2007). Is ozone flux inside leaves only a damage indicator? Clues from volatile isoprenoid studies. *Plant Physiol.* 143: 1096–100. doi:10.1104/pp.106.091892.
100. Loreto F., Centritto M., Barta C., Calfapietra C., **Fares S.**, Monson R.K. (2007). The relationship between isoprene emission rate and dark respiration rate in white poplar (*Populus alba* L.) leaves. *Plant. Cell Environ.* 30: 662–9. doi:10.1111/j.1365-3040.2007.01648.x.
101. Rennenberg H., Loreto F., Polle A., Brillì F., **Fares S.**, Beniwal R.S., Gessler A. (2006). Physiological responses of forest trees to heat and drought. *Plant Biol. (Stuttg).* 8: 556–71. doi:10.1055/s-2006-924084.
102. **Fares S.**, Bart, C., Brillì F., Centritto M., Ederli L., Ferranti F., Pasqualini S., Reale L., Tricoli D., Loreto F. (2006). Impact of high ozone on isoprene emission, photosynthesis and histology of developing *Populus alba* leaves directly or indirectly exposed to the pollutant. *Physiol. Plant.* 128: 456–465. doi:10.1111/j.1399-3054.2006.00750.x.

ARTICLES AS EXTENDED PROCEEDINGS AND BOOKS CHAPTERS:

1. Fares S., Sanesi G., Vacchiano G., Salbitano F., Marchetti M. (2020). Le foreste urbane ai tempi del COVID-19 ci proteggono dalle polveri sottili. *Forest@ - Rivista Di Selvicoltura Ed Ecologia Forestale* 48–51. - doi: 10.3832/efor3494-017.
2. Salbitano F., Fares, S., Andreatta, A., Toffano, A., Vacchiano, G. (2020). Foreste urbane. La progettazione di città resilienti che può cambiare il mondo. *LIFEGATE* - https://www.lifegate.it/foreste-urbane-citta-intelligenti?fbclid=IwAR2qmb9i86ESxLA5Wal6F8Cdxzvx_-fKpJuFLz-9rmnQN_e-vCW4gQEFI7I.
3. Fares S, Paoletti E (2019). Monitoring Italian forest ecosystems to understand the impacts of atmospheric pollution and the opportunities for mitigation. *Forest@ - Rivista Di Selvicoltura Ed Ecologia Forestale.* 16: 32–36. - doi: 10.3832/efor3154-016.
4. Fares S. Le foreste italiane in espansione. *Mediterraneo e dintorni*, pp. 14-16. http://www.mediterraneoedintorni.it/rivista/numero17/?fbclid=IwAR3fRQcoLygWtEmnkdCbmu8mf8AVjqIE1mQinNe6GnxglRA_i9h3atRekZM#p=1
5. Fares S., Salvati L. 2018. L'andamento del clima in Italia negli ultimi 20 anni e i cambiamenti climatici. Capitolo in: Papitto G., Cindolo C., Cocciufa C., Brunialti G., Frati L., Pollastrini M., Bussotti F. (a cura di), 2018. Lo stato di salute delle foreste italiane (1997 – 2017). 20 anni di monitoraggio della condizione delle chiome degli alberi. Pubblicato da Arma dei Carabinieri, Comando Unità Forestali Ambientali e Agroalimentari. Roma. Pag.205.
6. Juran S., Fares S., Urban O. 2017. Modulation of ozone flux in a mountain spruce forest under different cloud cover. Quo vaditis agriculture, forestry and society under global change? Conference Proceedings. Global Change Research Institute, The Czech Academy of Sciences, v.v.i. Brno, Repubblica Ceca.
7. Silibello, C., Baraldi, R., Rapparini, F., Facini, O., Neri, L., Brillì, F., Fares, S., Finardi, S., Magliulo, E., Ciccioli, P., Ciccioli, P. 2017. Modelling of Biogenic Volatile Organic Compounds Emissions over Italy. 18th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 9-12 October 2017, Bologna, Italy.
8. Fares, S., Paoletti, E., Calfapietra, C., Mikkelsen, T.N., 2017. Carbon Sequestration by Urban Trees. Springer International Publishing AG 2017 D. Pearlmutter et al. (eds.), *The Urban Forest, Future City* 7, DOI 10.1007/978-3-319-50280-9_4.
9. Samson, R., Grote, R., Calfapietra, C., Cariñanos, P., Fares, S., Paoletti, E., Tiwary, A., 2017. Urban Trees and Their Relation to Air Pollution. Springer International Publishing AG 2017 D. Pearlmutter et al. (eds.), *The Urban Forest, Future City* 7, DOI 10.1007/978-3-319-50280-9_3.

10. Samson, R., Ningal, T.F., Tiwary, A., Grote, R., Fares, S., Saaroni, H., Hiemstra, J.A., Zhiyanski, M., Vilhar, U., Cariñanos, P., Järvi, L., Przybysz, A., Moretti, M., Zurcher, N. 2017. Species-Specific Information for Enhancing Ecosystem Services. Springer International Publishing AG 2017 D. Pearlmutter et al. (eds.), *The Urban Forest, Future City 7*, DOI 10.1007/978-3-319-50280-9_12.
11. Karlik, J.F., S. Fares, D. Gentner, R. Weber, and A.H. Goldstein. 2015. Ozone removal by citrus trees as measured in the field via an eddy covariance system. *Citrograph* 6 (4): Fall 2015.
12. Harmens, H., Mills G....et al. Air pollution and vegetation ICP vegetation, annual report 2014/2015. DOI:10.13140/RG.2.1.1294.9200.
Publisher: ICP Vegetation Programme Coordination Centre, Centre for Ecology and Hydrology, Environment Centre Wales, Bangor, Gwynedd, UK, Editor: H. Harmens, G. Mills, F. Hayes, K. Sharps, M. Frontasyeva, ISBN: 978-1-906698-55-3
13. Karlik, J.F., S. Fares, D. Gentner and A.H. Goldstein. 2014. Field measurements of biogenic trace gas emissions from orange trees. *Citrograph* 5 (4): 48-55.
14. F. Loreto e S. Fares 2013. Biogenic Volatile Organic Compounds and their impacts on biosphere-atmosphere interactions. Capitolo per il libro intitolato: "Climate Change, Air Pollution and Global Challenges: Understanding and Solutions from Forest Research" . Volume curato da R. Matyssek, N. Clarke, P. Cudlin, T.N. Mikkelsen, J.-P. Tuovinen, G. Wieser, E. Paoletti per la serie "Developments in Environmental Science", editore Elsevier.
15. V. Moretti, S. Fares, L. Salvati. 2013. Misurando l'aria... Protecta. <http://www.protectaweb.it/ambiente/cambiamenti-climatici/787-misurando-laria>.
16. J. Karlik, S. Fares, D. Gentner, A.H. Goldstein 2012. Biogenic emissions from Citrus species in California measured via an enclosure system. *Citrograph* January/February issue, pp- 12-16.
17. J. Karlik, S. Fares, A.H. Goldstein 2010. Measuring ozone deposition to citrus via an enclosure system. *Citrograph*, July/August issue, pp 40-43.
18. Nogue, S. Fares, E. Oksanen, F. Loreto 2008. "Ozone effects on the metabolism and the antioxidant system in poplar leaves at different stages of development". Atti della "Conference on Photosynthesis", Glasgow, 22-27 July 2007 pubblicati nel book (Capitolo 7) intitolato "Photosynthesis. Energy from the Sun, 14th International Congress on Photosynthesis ", 2008, Springer Netherlands ed., pp. 1317-1322.
19. P. Misztal, S. Fares, and D. Taraborrelli 2007. Report on an e-working module on biogenic emissions. In "Surface Emissions and Prediction of Atmospheric Composition Changes". Edited by Claire Granier, Alex Guenther, Paulette Middleton and Aude Mieville. URL: <http://www.geiacenter.org/workshops/>.
20. S. Fares, F. Brillì, D. Serafini, F. Loreto. Biogenic VOC emission from *Phragmites australis* in reconstructed wetlands under high phosphorous. Atti del congresso: The Changing Chemical Climate of the Atmosphere, Accent Symposium. Urbino, Settembre 12-16 2005.
21. S. Fares, P. De Angelis, G. Matteucci, G. Scarascia-Mugnozza 2004. Vegetazione forestale mediterranea: impatto dei cambiamenti ambientali e potenzialità per la loro mitigazione. Atti del 2° Convegno Nazionale Piante Mediterranee: "Valorizzazione delle risorse e sviluppo sostenibile" (Agrigento, 7-8 ottobre).

INVITED AND ORAL PRESENTATIONS:

1. S. Fares, F. Brillì, F. Loreto, S. Pasqualini. Relazione tra emissione di isoprene e struttura e funzioni di foglie di *Populus alba* esposte a due diverse concentrazioni di ozono nella stessa pianta. Presentazione orale al V° Congresso Nazionale SISEF. Foreste e Società: Cambiamenti, Conflitti e Sinergie. Grugliasco (TO), 27-30 settembre 2005.
2. F. Brillì, S. Fares, C. Barta, S. Pasqualini, L. Reale, F. Loreto. Stima dell'impatto della CO₂ sull'emissione di isoprene in foglie di *Populus alba* cresciute a diversa CO₂. Presentazione orale al V° Congresso Nazionale SISEF. Foreste e Società: Cambiamenti, Conflitti e Sinergie. Grugliasco (To), 27-30 settembre 2005.
3. S. Fares, F. Loreto. Ozone uptake by urban forests: the case of *Quercus ilex* and *Populus* spp. Presentazione orale al 9th European Forum on Urban Forestry. Firenze, 22-26 maggio 2006.
4. S. Fares, J. Wildt, F. Loreto. "Relazione tra rimozione di ozono a livello fogliare ed emissione di isoprenoidi nelle specie forestali". Presentazione orale alla conferenza RIOVEG: Ozono e vegetazione, il contributo della ricerca Italiana. Pisa, 24 Novembre 2006.
5. M. Vitale, E. Salvatori, F. Manes, F. Loreto, S. Fares. "Risposta della conduttanza stomatica all'azione combinata di ozono e stress idrico in *Quercus ilex*". Presentazione orale alla conferenza RIOVEG: Ozono e vegetazione, il contributo della ricerca Italiana. Pisa, 24 Novembre 2006.

- 6.S. Fares, E. Oksanen, I. Nogues, F. Loreto. BVOC emission and ozone uptake along the profile of *Populus nigra* saplings exposed to high levels of atmospheric ozone. VI° Congresso Nazionale SISEF (Società Italiana di Selvicoltura ed Ecologia Forestale) Foreste e Società: Cambiamenti, Conflitti e Sinergie. Arezzo, 25-28 settembre 2007.
- 7.S. Fares, R. Taipale, A. Finco, J. Rinne, G. Gerosa, F. Loreto. BVOC and ozone fluxes from a dunal Mediterranean ecosystem. Biogenic Volatile Organic Compounds: sources and fates in a changing world. Montpellier (Francia), 2-5 ottobre 2007.
- 8.S. Fares. "Ozone uptake by plants and interactions with BVOC emission". University of Berkeley, 13 ottobre 2007.
- 9.S. Fares, G. Matteucci and F. Loreto. Scambio di CO₂, H₂O e Composti Organici Volatili Biogenici (BVOC) da vegetazione dunale: risultati della Campagna Sperimentale Internazionale effettuata Sincela Network di Eccellenza ACCENT nella Tenuta Presidenziale di Castelporziano (RM). Secondo simposio nazionale: "Il monitoraggio costiero mediterraneo: problematiche e tecniche di misura". Napoli, 4-6 giugno 2008.
10. C. Kemper Pacheco, E. Brancaleoni, G. Matteucci, S. Fares and P. Ciccioli. A GIS based model to estimate the species-specific Biogenic Volatile Organic Compounds (BVOC) emissions from some Italian terrestrial ecosystems (145). ADPR (Associação Portuguesa para o Desenvolvimento Regional) Conference, Tomar, Portogallo, 4-5 luglio 2008.
11. S. Fares, M. McKay, A.H. Goldstein. The ecophysiology of a *Pinus ponderosa* ecosystem exposed to high tropospheric ozone: implications for stomatal and non-stomatal ozone fluxes. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 15-19 dicembre 2008.
12. S. Fares, E. Ormeno, D. Gentner, M. McKay, J. Karlik, A. H. Goldstein. Measurements of Ozone Removal and VOC Emissions in Citrus Trees with Implications for Regional Air Quality. New Technologie Conference, Emeryville, California, USA, 27-29 gennaio 2009.
13. S.Fares, J.K. Karlik, A.H. Goldstein. "Measurements of Ozone Removal and VOC Emissions in Citrus Trees with Implications for Regional Air Quality". Presentazione presso la stazione sperimentale di Lindcove, Exeter, California. 11 maggio 2011.
14. S. Fares. "Tropospheric ozone removal from crop and forest species: dependences on plant physiology and on the emission of isoprenoids". Invitato a presentare un seminario presso il centro di ricerca CICESE in Encenada, Messico, 16 maggio 2011.
15. S. Fares. "Fluxes of ozone from an orange orchard: partitioning into stomatal and non-stomatal deposition". COST conference on "Ozone, climate change and Forests". Praga, Repubblica Ceca, 14-17 giugno 2011.
16. S. Fares. "Tropospheric ozone removal from crop and forest species: dependences on plant physiology and on the emission of isoprenoids". Invitato a presentare oralmente presso l'Università di Anversa, Research Group of Plant and Vegetation Ecology University, Anversa, Belgio, il 14/10/2011.
17. S. Fares, G. Scarascia Mugnozza. "Il Role delle foreste urbane nel miglioramento della qualità dell'ambiente". Incontro dedicato al Parco di Monte Mario presso i Musei Capitolini, Rome, in data 10/11/2011.
18. S. Fares. "Measurements of Ozone Removal and VOC Emissions in crop and forest species: dependences on meteorological variables and on plant physiology". Invitato a presentare oralmente presso il JRC (Joint Research Center), Institute for Environment and Sustainability, Climate Change and Air Quality Unit, Ispra (VA), Italy in data 24/11/2011.
19. A.H. Goldstein; S. Fares; D.R. Gentner; J. Park; R. Weber; E. Ormeno; R. Holzinger; P.K. Misztal; T.R. Karl; A.B. Guenther; M.L. Fischer; R.A. Harley; J.F. Karlik. "New observations of VOC emissions and concentrations in, above, and around the Central Valley of California". AGU (American Geophysical Union) fall meeting, dicembre 5-9 2011.
20. J. Park; R. Holzinger; J. Timkovsky; S. Fares; J.F. Karlik; A.H. Goldstein. "BVOC flux measurements using PTR-TOF-MS in an orange orchard in the Central Valley of California". AGU (American Geophysical Union) fall meeting, dicembre 5-9 2011.
21. S. Fares. Measured and modelled stomatal and non-stomatal ozone fluxes in a mixed Mediterranean forest. 25th ICP-Vegetation Task Force Meeting. 30 gennaio – 2 febbraio 2012, Brescia, Italy.
22. S. Fares. "Measurements of stomatal ozone fluxes and effects in a mixed mediterranean oak forest". Biological Reactions of Forests to Climate Change and Air Pollution 20 - 24 Maggio, 2012, Lithuanian University of Agriculture, Faculty of Forestry and Ecology, Kaunas, Lithuania.
23. C. Calfapietra, S. Fares, F. Manes, F. Loreto. "Role of biogenic volatile compounds emitted by urban trees on ozone formation in cities". Urban Environmental Pollution conference, Amsterdam, The Netherland, 17-22 giugno 2012.
24. S. Fares. Biogenic VOC emission from leaves at Bosco Fontana. ECLAIRE general assembly, Edimburgo, Gran Bretagna, 15 ottobre 2012.
25. S. Fares. Investigation of novel ecosystem – air pollution – climate interactions. ECLAIRE general assembly, Edimburgo, Gran Bretagna, 17 ottobre 2012.
26. S. Fares. "The effect of ambient ozone on carbon assimilation in trees: estimates using continuous flux measurements". ICP (International Cooperative Program) Vegetation annual meeting. 28-31 gennaio 2013, Halmstad, Svezia.
27. S. Fares. Influence of Urban Forest on Air Quality. Presentazione su invito presso la Chinese Academy of Forestry, Pechino, China, 3 giugno 2013.
28. De Marco A., Sicard P., Vitale M., Renou C., Carriero G., Fares S., Paoletti E. The FO3REST project and its support to reduce modelling uncertainties in risk assessment to protect Mediterranean forests from ozone. "Vegetation Response to Climate Change and Air Pollution – Unifying Evidence and Research across Northern and Southern Hemisphere", IUFRO congress, Bahia, Brasile, 1-6 settembre 2013.
29. Calfapietra C., Morani A., Sgrigna G., Pallozzi E., Nowak D, Fares S. Interactions of urban forests with atmospheric pollutants: evidences from laboratory, field and modeling experiments. IUFRO congress, Bahia, Brasile, 1-6 settembre 2013.

30. S. Fares. Mediterranean forests in urban areas can help to mitigate the negative effects of climate changes by sequestering carbon, ozone and particles from the atmosphere: results from the experimental site of Castelporziano, Italy. EFIMED (Mediterranean Regional Office of the European Forest Institute) week. 3-6 settembre 2013 Barcellona, Spagna.
31. Gerosa G., Finco A., Marzuoli R., Hardersen S., Gorian F., Fares S., Coyle M., Loubet B., Nemiz E., Sutton M. "Ozone fluxes at a mixed oak-hornbeam mature forest in the Po Valley. Results of the intensive and long-term measurement campaigns of the ECLAIRE FP7-Project." ACCENT-Plus Symposium, Urbino 17-20 settembre 2013.
32. Fares S. Invited presentation entitled "Urban forests can ameliorate air quality by sequestering carbon, ozone and particles from the atmosphere". International symposium for EU-China urbanization and urban forest construction. Beijing, Cina, 20-23 Novembre 2013.
33. Fares, S. "Interazioni tra ecosistemi forestali mediterranei ed inquinamento urbano: rimozione di inquinanti dell'aria e impatto sull'assimilazione di carbonio". Primo incontro su gli impatti dell'inquinamento atmosferico sugli ecosistemi naturali e antropici. ENEA, Rome, 23-24 gennaio 2014.
34. Fares, S. "Ball-Berry vs Jarvis approaches to model stomatal ozone deposition in Mediterranean forests: validation using the test sites of Castelporziano and San Rossore forests." 27th Task Force Meeting of the ICP Vegetation". Parigi, Francia, 28-30 gennaio 2014.
35. Fares S. Measuring and modeling ozone fluxes in Mediterranean forest ecosystems in Italy. 9th Air Pollution and Global Change Symposium Monterey, CA, USA 11-06-2014.
36. Fares S. BVOC emissions and tropospheric ozone removal from crop and forest species. Presentazione su invito presso la sede del centro di Ricerca CzechGlobe, Brno, Repubblica Ceca. 07-09/01/2015.
37. Fares S. Multiple interactions between anthropogenic pollutants, greenhouse gases and biogenic volatile organic compounds in a Holm oak peri-urban forest. Presentazione orale al meeting IUFRO 2015 International Congress on forest health. Nizza, 01-05 giugno 2015.
38. Fares S., Salvati L., Fabbio G. Le indagini relative alla meteorologia e all'accrescimento degli alberi. Convegno SMART4ACTION, EXPO' di Milano, 6 agosto 2015.
39. Fares S., Savi F., Brilli F., Loreto F., Paoletti E. Multiple interactions between anthropogenic pollutants, greenhouse gases and biogenic volatile organic compounds in a Holm oak peri-urban forest. Final conference ECLAIRE, Edimburgo, UK, 1-4 settembre 2015.
40. Fares S, F. Loreto, G. Carriero, Z. Feng, G. Mills, F. Hayes, A. Alivernini, Y. Hoshika, F. Savi, E. Paoletti. Isoprenoids responses to global change drivers. Final conference ECLAIRE, Edimburgo, UK, 1-4 settembre 2015.
41. Fares S. Savi F., Alivernini A., Paoletti E. Bi-directional fluxes of greenhouse gases and biogenic volatile organic compounds in a Holm oak peri-urban forest. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
42. Alivernini A, Barbati A, Fares S, Corona P. Unmasking forest borderlines by a lidar-based automatic delineation. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
43. Savi F, Nemitz E, Fares S. Does tropospheric ozone threat European forests' carbon sink potential? Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
44. Fares S. Bi-directional exchange of VOC in a Holm oak peri-urban forest. Presentazione su invito presso "7th PTRMS Conference", Obergurgl (Austria), 14-19 febbraio 2016.
45. Fares S. Ozone effects on carbon assimilation by plant ecosystems: research challenges and opportunities in the frame of existing and future monitoring networks. Keynote speaker invitato presso il workshop/conferenza ENVRIplus presso Zandvoort, Olanda, 9-10 maggio 2016.
46. Fares S. Biogenics: Dynamics and Processing Within Canopies. Gordon Research Conference - Biogenic Hydrocarbons & the Atmosphere, Girona, 26 giugno -1 luglio 2016.
47. Fares S. Valutazione dei flussi di ozono in ecosistemi forestali attraverso il monitoraggio di lungo termine. Ozono e vegetazione: il contributo della ricerca Italiana, Pisa, 24 novembre 2016.
48. Fares S. Il clima nei siti forestali. Inquinamento atmosferico e sostenibilità: dagli impatti a possibili soluzioni – un approccio integrato. ENEA, Rome, 16-17 marzo 2017.
49. Fares S. Removal of greenhouse gases and pollutants in periurban Mediterranean forest ecosystems described by the Aggregated Interpretation of the Energy balance and water dynamics for Ecosystem services assessment (AIRTREE) model. GREENINURBS final conference, Orvieto, Italy, 04-07 aprile 2017.
50. Fares S. Foreste e il clima che cambia. Agrogeneration, side event del G7. Bologna, 08 giugno 2017.
51. Fares S. Le foreste ci difendono dai cambiamenti climatici. Corso di formazione per giornalisti intitolato: "Saper leggere le fonti in un mondo che cambia: l'informazione ambientale". CREA, Via Po 14, mercoledì 12 luglio 2017.
52. Fares S. Il progetto URBANFOR3 - Role della forestazione urbana nella mitigazione delle emergenze climatiche e dell'inquinamento: strumenti innovativi di pianificazione e valutazione. Workshop "nuove tecnologie per il monitoraggio dei servizi ecosistemici delle foreste urbane" Rome, 20 settembre 2017.
53. Fares S. "La misura in campo del sequestro di inquinanti con tecniche micrometeorologiche". Workshop "Nuove tecnologie per il monitoraggio dei servizi ecosistemici delle foreste urbane" Rome, 20 settembre 2017.
54. Fares S. "Applicazioni di precisione a supporto della gestione del verde urbano e peri-urbano." Precision Forestry: prospettive e applicazioni a supporto dell'attuazione della strategia forestale nazionale e delle politiche di sviluppo rurale, Arezzo, 07 novembre 2017.
55. Fares S. Multiple interactions between biogenic volatile organic compounds and ozone in periurban crop and forest ecosystems. Seminario su invito presso l'University di Tartu da parte del prof. Ulo Niinemets. Tartu, Estonia, 26/02/2018.

POSTERS PRESENTED:

- 1.S. Fares, F. Brillì, D. Serafini, S. Dagli. Effects of high phosphorous on isoprene emission from *Phragmites australis* in reconstructed wetlands. IBC (International Botanical Congress), Vienna, 17-23 luglio 2005.
- 2.Noguès, C. Barta, F. Brillì, S. Fares, F. Loreto. Effectiveness of *Phragmites australis* plants in removing phosphates from a phosphate enriched aqueous solution and its relationship with photosynthetic metabolites. IBC (International Botanical Congress), Vienna, 17-23 luglio 2005.
- 3.S. Fares, F. Brillì, D. Serafini, F. Loreto. Biogenic VOC emission from *Phragmites australis* in reconstructed wetlands under high phosphorous. "The Changing Chemical Climate of the Atmosphere", Accent Symposium. Urbino, Settembre 12-16 2005.
- 4.V. Velikova, C. Barta, I. Noguès, F. Brillì, S. Fares and F. Loreto. Isoprene in changing environment – Effect of high temperature and Ozone on Isoprene emission. Role of Isoprene in plant protection. "The Changing Chemical Climate of the Atmosphere", Accent Symposium. Urbino, Settembre 12-16 2005.
- 5.S. Fares, F. Loreto, J. Wildt. Ozone uptake and BVOC emission by plants: the case of *Quercus ilex* and *Populus nigra*. CACGP/IGAC and WMO conference. Città del Capo, 17-23 Settembre 2006.
- 6.S. Fares, F. Loreto, J. Wildt. "Isoprenoids emission and their interaction with ozone uptake in forest species". ISONET meeting. Kuopio, Finlandia, 30 Novembre – 1 Dicembre 2006, e GEIA summer school, 10-20 settembre 2007. <http://www.geiacenter.org/>.
- 7.S. Fares, F. Loreto, J. Wildt. "Do isoprenoids play a role in regulating intercellular ozone concentration?". ISONET meeting. Kuopio, Finlandia, 30 Novembre – 1 Dicembre 2006.
- 8.Fares S, Loreto F, Wildt J. "Isoprenoids emission and their interaction with ozone uptake in forest species". PTR-MS conference. Obergurgl, Austria 27 gennaio – 4 febbraio 2007.
- 9.S. Fares, F. Loreto. "Volatile isoprenoids reduce ozone damage and increase ozone uptake in plants exposed to high atmospheric ozone". Gordon Research Conference on Biogenic hydrocarbons and the Atmosphere. Ventura, California, Stati Uniti, 25 febbraio - 2 marzo 2007, e GEIA summer school, 10-20 settembre 2007. <http://www.geiacenter.org/>.
- I. Noguès, S. Fares, F. Loreto. "Ozone effects on the metabolism and the antioxidant system in poplar leaves at different stages of development". Conference on Photosynthesis. Glasgow, 22-27 July 2007.
10. S. Fares, F. Loreto. "The protective role of isoprenoids emitted by plants in episodes of high ozone levels". The Changing Chemical Climate of the Atmosphere, ACCENT (Atmospheric Composition change the European Network of Excellence) Symposium. Urbino, 23-27 luglio 2007.
11. K. Zemankova and S. Fares. Estimation of Biogenic VOC Emissions in the Czech Republic. GEIA summer school, 10-20 settembre 2007. <http://www.geiacenter.org/>.Symposium. Urbino, 23-27 luglio 2007.
12. S. Fares, E. Oksanen, I. Noguès, F. Loreto. BVOC emission and ozone uptake along the profile of *Populus nigra* saplings exposed to high levels of atmospheric ozone. VI° Congresso Nazionale SISEF (Società Italiana di Selvicoltura ed Ecologia Forestale) Foreste e Società: Cambiamenti, Conflitti e Sinergie. Arezzo, 25-28 settembre 2007.
13. R. FoSinee, C. Calfapietra, F. Brillì, C. Barta, S. Fares, F. Loreto, M. Centritto. Carbon assimilation and isoprene emission in response to rising temperature and drought in *Populus nigra* saplings. VI° Congresso Nazionale SISEF (Società Italiana di Selvicoltura ed Ecologia Forestale) Foreste e Società: Cambiamenti, Conflitti e Sinergie. Arezzo, 25-28 settembre 2007.
14. E. Ormeno, S. Fares, D. Gentner, J.H. Park, M. McKay, A.H. Goldstein, and J. Karlik. Volatile Organic Compound Emissions by Agricultural Crops. BASC symposium (Berkeley Atmospheric Science Center), Berkeley, California, USA, 3-4 ottobre 2008.
15. S. Fares, M. McKay, and A.H. Goldstein. Ozone fluxes in a *Pinus ponderosa* ecosystem exposed to high tropospheric ozone. BASC symposium (Berkeley Atmospheric Science Center), Berkeley, California, USA, 3-4 ottobre 2008.
16. E. Ormeno, S. Fares, D. Gentner, J.H. Park, M. McKay, A. Goldstein, J. Karlik. Volatile Organic Compound Emissions by Agricultural Crops. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 15-19 dicembre 2008.
17. J.H. Park, S. Fares, E. Ormeno, D. Gentner, M. McKay, J. Karlik, A. H. Goldstein. Ozone uptake and BVOC emission from the major citrus crops in California measured via an enclosure system. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 15-19 dicembre 2008.
18. S. Fares, F.Brillì, G. Scarascia Mugnozza, P. Ciccioli, R. Taipale, J. Rinne F. Loreto. The ACCENT-VOCBAS field campaign on biosphere-atmosphere interactions in a Mediterranean ecosystem. EGU (European Geosciences Union) General Assembly 2009, Vienna, Austria, 19 – 24 aprile 2009.
19. E. Ormeno, S. Fares, D. Gentner, J.H. Park, J. Karlik, A. H. Goldstein. Biogenic volatile organic compounds (BVOCs) emitted and accumulated by herbaceous and woody California crops. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 14-18 dicembre 2009.
20. S. Fares, E. Ormeno, J.H. Park, D. Gentner, M. McKay, J. Karlik, A. H. Goldstein. Ozone fluxes and BVOC emission from Citrus species exposed to different levels of atmospheric ozone concentration. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 14-18 dicembre 2009.
21. S. Fares, E. Ormeno, J.H. Park, D. Gentner, J. Karlik, A. H. Goldstein. Ozone fluxes and BVOC emission from Citrus species. A BASC symposium (Berkeley Atmospheric Science Center), Berkeley, California, USA, 26 gennaio 2010.

22. S. Fares, E. Ormeno, R. Weber, J.H. Park, J. Karlik, F. Loreto, A. H. Goldstein. "Tropospheric ozone removal and BVOC emission from Citrus plants". Gordon Research Conference - Biogenic Volatile and the atmosphere. Les Diableret (Svizzera), 23-28 Maggio 2010.
23. E. Ormeno, S. Fares, D. Gentner, J.H. Park, J. Karlik, A. H. Goldstein. "Evidence of a Large Gap in the Knowledge of Sesquiterpene Emissions". Gordon Research Conference - Biogenic Volatile and the atmosphere. Les Diableret (Svizzera), 23-28 Maggio 2010.
24. J.H. Park, S. Fares, R. Weber, A. H. Goldstein. Observations of BVOC Fluxes and Vertical Gradients in a Ponderosa Pine Forest during BEARPEX 2009. IGAC conference, Halifax, Canada, 11-16 luglio 2010.
25. S. Fares, D. Gentner, J.H. Park, R. Weber, J. Karlik, A. H. Goldstein. BVOC and tropospheric ozone fluxes from an orange orchard in the California Central Valley. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 13-17 Dicembre 2010.
26. J.H. Park, S. Fares, R. Weber, A. H. Goldstein. Observations of BVOC Fluxes and Vertical Gradients in a Ponderosa Pine Forest during BEARPEX 2009. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 13-17 Dicembre 2010.
27. S. Fares, D. Gentner, J.H. Park, R. Weber, J. Karlik, A. H. Goldstein. BVOC and tropospheric ozone fluxes from an orange orchard in the California Central Valley. A BASC symposium (Berkeley Atmospheric Science Center), Berkeley, California, USA, 11-12 febbraio 2011.
28. S. Fares, R. Weber, J.H. Park, J. Karlik, A. H. Goldstein. "Fluxes of BVOC and tropospheric ozone from a Citrus orchard in the California Central Valley". FLUXNET workshop. Berkeley, California, 7-10 giugno 2011.
29. S. Fares, J.H. Park, R. Weber, J.A. H. Goldstein Estimating BVOC Emissions by Flux-Gradient Relationship during BEARPEX 2009. American Chemical Society Symposium. Denver, CO, USA, 29 agosto-2 settembre 2011.
30. S. Fares, J.H. Park, R. Weber, D. Gentner, A. H. Fluxes of BVOC and tropospheric ozone from a Citrus orchard in the California Central Valley. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 5-9 dicembre 2011.
31. S. Fares, F. Petersson, R. Schnitzhofer, G. Matteucci, G. Scarascia Mugnozza, X. Jiang, A. Guenther, A. Hansel, F. Loreto. Fluxes of ozone and Biogenic Volatile Organic Compounds in a mixed Mediterranean forest over a transition period between summer and fall. Gordon Research Conference on Biogenic hydrocarbons and the Atmosphere. Lewiston, Maine, USA. 24 – 29 June 2012.
32. S. Fares, F. Petersson, R. Schnitzhofer, G. Matteucci, G. Scarascia Mugnozza, X. Jiang, A. Guenther, A. Hansel, F. Loreto. Fluxes of ozone and Biogenic Volatile Organic Compounds in a mixed Mediterranean forest over a transition period between summer and fall. AGU (American Geophysical Union) Fall Meeting, San Francisco, California, USA, 3-7 dicembre 2012.
33. C. Wu, I. Pullinen, G. Carriero, S. Fares, L. Hacker, T. Kasal, A. Kiendler-Scharr, E. Kleist, J. Wildt, T. F. Mentel. Biogenic Volatile Organic Compounds and Ozone Balance under Future Climate Conditions. 2nd International Workshop on BVOC Modeling and Applications, UK Met Office in Exeter, June 10th - 11th 2013.
34. E. Nemitz, B. Langford, C.F. Di Marco, M. Coyle, C. Braban, M. Twigg, G. Gerosa, A. Finco, A. Valach, J. Acton, B. Loubet, S. Schallart, R. Gasche, E. Diaz-Pines, S. Fares, J. Westerlund, Å. Hallquist, C. Gritsch, S. Zechmeister-Boltenstern and M.A. Sutton. "Quantifying Chemical Interactions in a Forest Canopy – First Results from the ÉCLAIRE Campaign at Bosco Fontana, Po Valley." ACCENT-Plus Symposium, Urbino 17-20 settembre 2013.
35. L. Fusaro, S. Fares et al. "Photosynthetic performance of *Quercus ilex* L. under long-term ozone exposure probed by carboxylation efficiency, maximum apparent quantum yield and modulated 820 nm reflection.". 27th Task Force Meeting of the ICP Vegetation". Parigi, Francia, 28-30 gennaio 2014.
36. S. Juráň, F. Savi & S.Fares. Observations of concentration gradient of volatile organic compounds in a Mediterranean Holm Oak forest nearby Rome, Italy. Gordon Research Conference on Biogenic hydrocarbons and the atmosphere. Girona, Spagna, 29 May -4 July 2014.
37. F. Savi, S. Fares, 2014. Continuous flux measurements for a greenhouse gas balance in a Mediterranean Holm oak forest. 1st ICOS conference. Bruxelles, 23-25 Settembre.
38. C. Wu, I. Pullinen, S. Andres, G. Carriero, S. Fares, H. Goldbach, L. Hacker, T. Kasal, A. Kiendler-Scharr, E. Kleist, E. Paoletti, A. Wahner, J. Wildt, T. F. Mentel. 2014. Impacts of soil moisture on de-novo monoterpene emissions from European beech, Holm oak, Scots pine, and Norway spruce. ECLAIRE general conference, 2014.
39. Integrating Impacts of Air Pollution and Climate Change on Ecosystems, 1st-2nd October, Radisson Blu Beke Hotel, Budapest, Hungary.
40. Alivernini, A. Barbati, P. Corona, 2014. Unmasking forest borderlines with a LIDAR-based automatic delineation. FORESTSAT Conference. 4-7 Novembre, Riva del Garda, Italy.
41. F. Savi S.Fares. 2014. Methane fluxes in a Mediterranean Holm oak forest nearby Rome, Italy. Environmental Science Summit. Garmish Partenkirchen, Monaco, Germania. 16-18 luglio.
42. R. Marzuoli R., R. Monga, A. Finco A, L. Fusaro L, E. Salvatori, S. Fares, E. Kuzminsky, F. Manes, G. Gerosa. 2014. Biomass response of young holmoak trees after one season of ozone treatment in well watered condition. CAPERMED conference, Lisbona, 3-4 luglio.
43. S. Juráň, S. Fares, K. Večeřová, P. Holišová, M. Zapletal, E. Pallozzi, G. Guidolotti, C. Calfapietra, Z. Večeřa, P. Cudlín, O. Urban. Seasonal variation of nitrogen oxides, ozone and biogenic volatile organic compound concentrations and fluxes at Norway spruce forest. European geoscience Union general meeting, Vienna, 12-17 Aprile 2015.
44. S. Juráň, K. Křůmal, Z. Večeřa, S. Fares, O. Urban. Monoterpene fluxes in Norway spruce forest of the Czech Republic. TERPNET meeting, 1-5 giugno, Vancouver, Canada.

45. S. Fares, L. Salvati. Monitorare gli ecosistemi forestali attraverso il rilevamento climatico. EXPO Milano, Agosto 2015.
46. C. Wu, I. Pullinen, S. Andres, G. Carriero, S. Fares, L. Hacker, A. Kiendler-Scharr, E. Kleist, E. Paoletti, A. Wahner, J. Wildt, Mentel T. The role of plants for tropospheric ozone balance: possible changes under drought and heat stress. ECLAIRE final meeting, Edimburgo (UK), 1-4 settembre 2015.
47. Fares S, Alivernini A, Maggi F. Fluxes of greenhouse gases and pollutants in periurban Mediterranean forest ecosystems described by the SOil-Atmosphere-Plant (SOAP) model. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
48. Hoshika Y, Fares S, Cieslik S, Gruening C, Goded I, De Marco A, Sicard P, Paoletti E. Parameterizing the DO3SE model for estimating stomatal ozone uptake in Mediterranean forests. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
49. Savi F, Fares S, Juran S. VOCs' exchange above a periurban forest on the Mediterranean coast. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
50. Carriero G, Hoshika Y, Fares S, Pignattelli S, Lazzara M, Giovannelli A, Emiliani G, Traversi L, Brunetti C, Paoletti E. Long-term effect of ethylenediurea (EDU) on poplar clones under ambient ozone. Congresso nazionale SISEF, Firenze 15-18 settembre 2015.
51. Fares S., Savi F. Environmental control on fluxes of greenhouse gases and biogenic volatile organic compounds in a Holm oak forest. Rome 2015 Science Symposium on Climate. FAO, 19-20 Novembre 2015.
52. Fares S., Alivernini A., Maggi F. Fluxes of energy and greenhouse gases in Mediterranean forest ecosystems described by the SOil-Plant-Atmosphere continuum model (SPAC). Rome 2015 Science Symposium on Climate. FAO, 19-20 Novembre 2015.
53. Fares S., Savi F. Fluxes of greenhouse gases and biogenic volatile organic compounds in a Mediterranean Holm oak forest. FORESTERRA General meeting, Lisbona, 23-26 Novembre 2015.
54. Fares S., Alivernini A., Maggi F. Fluxes of energy and greenhouse gases in Mediterranean forest ecosystems described by the SOil-Plant-Atmosphere continuum model (SPAC). FORESTERRA General meeting, Lisbona, 23-26 Novembre 2015.
55. Juráň S, Fares S, Pallozzi E, Guidolotti G, Savi F, Alivernini A, Calfapietra C, Večeřová K, Křůmal K, Večeřa Z, Cudlín P, Urban O. Fluxes of biogenic volatile organic compounds measured and modelled above a Norway spruce forest. EGU General Assembly 2016 17–22 aprile, Vienna, Austria.
56. Juran S., Fares S., et al. Fluxes of biogenic volatile organic compounds measured and modelled above a Norway spruce forest. Gordon Research Conference - Biogenic Hydrocarbons & the Atmosphere, Girona, 26 giugno –1 luglio 2016.
57. C. Wu, I. Pullinen, S. Andres, G. Carriero, S. Fares, L. Hacker, A. Kiendler-Scharr, E. Kleist, E. Paoletti, E. Wahner, J. Wildt and Th. F. Mentel. The role of plants for tropospheric ozone balance. Gordon Research Conference - Biogenic Hydrocarbons & the Atmosphere, Girona, 26 giugno –1 luglio 2016.
58. Baraldi R., Rapparini F., Brilli F., Facini O., Fares S., Neri L., Brusasca G., Finardi S., Vagnoli C., Vitali L., Famulari D., Magliulo E., Ciccioli P. Emission and reactivity of BVOC from vegetation covered areas of Mount Vesuvius and their mixing with anthropogenic VOC transported from the urban area of Naples. Gordon Research Conference - Biogenic Hydrocarbons & the Atmosphere, Girona, 26 giugno –1 luglio 2016.
59. Nardi P, Alivernini A, Felici B, Napoli R, Pennelli B, Migliore M, Fares S, Benedetti A, Pinzari F. 2016. Il Progetto URBANFOR3 e lo studio dei suoli a copertura forestale di Roma. Società Italiana della Scienza del Suolo 41° Congresso Nazionale. Ancona, 5-7 dicembre 2016.

DELIVERY OF WEB TOOLS (Open access and open source):

1. Fares S., Alivernini A. 2018 AIRTREE - A web tool supporting pollution mitigation and carbon removal strategies. Tool gratuito di support alla pianificazione forestale attraverso la quantificazione dei servizi ecosistemici. Accessibile all'indirizzo: www.air-tree.org.
2. Alivernini A., Fares S., Ferrara, C., Chianucci F. 2018. An objective image analysis method for estimation of canopy attributes from digital cover photography. Codici open access al sito: <https://github.com/alivernini/caco>.
3. Alivernini A., Barbati A., Fares S., Corona P. 2016. Forest01: Automatic delineation of forest borderlines. Strumento scaricabile gratuitamente dal sito: https://sourceforge.net/projects/forest01/?source=typ_redirect. L'applicativo consente di mappare il bosco sulla base di dati ottenuto da rilevamenti lidar.
4. Fares, S. FLUXNET2015 IT-Cp2 Castelporziano 2. Italy: N. p., 2016. Web. doi:10.18140/FLX/1440233. Raccolta di dati misurati in campo e condivisi gratuitamente con la comunità scientifica.