Curriculum Vitae

PERSONAL INFORMATION

Carlo Calfapietra

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Sex [redacted] | Date of birth [redacted] | Nationality [redacted]

WORK EXPERIENCE

2020 – Director of CNR Institute of Research on Terrestrial Ecosystems (IRET)
2019 – Research Director at CNR Institute of Research on Terrestrial Ecosystems (IRET)
2018 – Acting Director at CNR Institue of Agroenvironmental and Forest Biology (IBAF) - Acting Director at CNR Institute of Research on Terrestrial Ecosystems (IRET)
2009 Researcher, Institute of Agro-Environmental and Forest Biology (IBAF), CNR, Porano (TR)
2007 – 2009 Temporary Researcher, Institute of Agro-Environmental and Forest Biology (IBAF), CNR, Montelibretti (Roma)
2005 – 2007 Honorary Fellow-Temporary Researcher. Marie Curie
University of Wisconsin-Madison, Department of Botany, USA; Università della Tuscia, Dipartimento di Scienze Forestali e sue Risorse, Italy
2002 – 2005 Post-doc contracts Università della Tuscia, Dipartimento di Scienze Forestali e delle sue Risorse, Viterbo,
1999 – 2002 PhD student in Forest Ecology, Università di Padova

EDUCATION AND TRAINING

1999-2002
Doctoral Degree in Forest Ecology obtained on 14 February 2002 at Università di Padova, Italy 1991-1998
University degree in Forestry obtained on 23 April 1998 at Università degli Studi della Tuscia, Viterbo, Italy.
Evaluation score 110/110 cum laude.
1986-1993
Musical degree in Flute obtained on 01 October 1993 at the State Music Conservatorium of Perugia, Italy
1986-1991
Bachelor Degree “Maturità Scientifica”, Liceo Scientifico P. Ruffini Viterbo, Italy

PERSONAL SKILLS

MOTHER TONGUE(S) Italian

OTHER LANGUAGE(S)

	UNDERSTANDING		SPEAKING		WRITING
	LISTENING	READING	SPOKEN INTERACTION	SPOKEN PRODUCTION	
English language	ENTER LEVEL	ENTER LEVEL	ENTER LEVEL	ENTER LEVEL	ENTER LEVEL
	C2	C2	C2	C2	C2

	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

"KEY-CAREER ACHIEVEMENTS"

-H-Index: 56 (Google-Scholar); 46 (WoS); Citations: 11310 (Google-Scholar); 7419 (WoS); mean IF of the papers >5
- Marie Curie OIF (Outgoing International Fellowship) 2005 – 2007 (USA-Italia)
- Chair of the COST Action FP1204 2013 – 2017
- 10 Invited Keynote Speeches in International Conferences since 2012
- More than 10M€ funds obtained in the last 10 years (excluding PNRR funds)
- Member of Science Europe LEGS Committee (European Selection based on Scientific Excellence) 2013 – 2016
- Member of Czechglobe, Centre of Excellence for studies of Climate Change 2010 – 2019
- Responsible of the CNR Strategic Area "Resources and Ecosystems" 2014 – 2020
- Italian Focal point of ICOS-Eric and project coordinator of PRO_ICOSMED, PON Infrastructure, 2016 - now
- Expert of the EU Commission for the "Nature Based Solutions" 2016- now
- Director of Institute at CNR, 2018-now
- PRIN 2017 Coordinator for the project EUFORICC
- CNR Responsible and Spoke Leader in the National Biodiversity Future Centre (PNRR)
- NBS Italy Hub Coordinator

• KEYNOTE SPEAKER INVITATIONS

International Mediterranean Biodiversity Conference, 2023 (Lecce)
Wageningen Soil Conference, 2023 (Wageningen)
Smart and Sustainable Cities Conference, 2018 (Moscow)
European Urban Green Infrastructure Conference, 2017 (Budapest)
Congress of Italian Society of Silviculture and Forest Ecology, 2017 (Rome)
Megacities 2050 Conference, 2016 (Moscow)
European Symposium of Albi Hortis-WUP, 2016 (Albi, France)
European Forum of Urban Forestry, 2014 (Lausanne)
Urban Environmental Pollution Conference, 2013 (Beijing)
Urban Environmental Pollution Conference, 2012 (Amsterdam)

• INVITED SPEECHES

NBS in Brazilian and European Cooperation, II International Seminar on Nature-Based Solutions (NBS): Promoting Urban Nature for more Resilient Cities. Examples from Brazil and Europe. Brasilia (2018)
HYPI Conference 'New Perspectives in Modeling and Measurement of Biogenic Volatile Organic Compounds Emissions by Remote Sensing', Antwerp (2017)
EUSALP Action Group Forum, Garmisch (2017)
Lungs of the Earth, Forest Policies for Climate and Health, EU Parliament, Brussels (2017)
UN Science-Policy-Businness Forum, Nairobi (2017)
European Congress of Arboriculture (ISA), Turin (2014)
Conference "Global Change and Resilience", Brno (2013)
Conference "Priorities for forest adaptation to climate change and air pollution", Brussels (2013)
Joint workshop CNR-Max Planck "Integration and partnership in Science and Technology: state of the art and future Perspectives", Villa Vigoni (2013)

• CHAIR IN INTERNATIONAL EVENTS

Chair of the “Changing Environment” session at the 1st World Forum on Urban Forests, 2018 (Mantova)
Chair of the Session “Impacts of air pollution and climate change on forests in the wildland-urban interface” at the IUFRO International Congress Global Challenges of Air Pollution and Climate Change to Forests 2015 (Nice)
Chair of the session “Good Practices examples” at the EU-EaP STI Policy Stakeholders Conference, 2014 (Yerevan, Armenia)
Chair of the session “Contributions of life in extreme environments to biogeochemical cycles and responses to environmental change” at the International CAREX Conference on Life in Extreme Environments, 2011 (Dublin)

• ORGANIZATION OF SCIENTIFIC MEETINGS

2022 Organizer and Chair of the XIII Congress of SISEF ”Alberi-Foreste-Biodiversità”. Orvieto 30 May-02 June (+400 registered participants)

2017 Organizer and Chair of the International Conference “Green Infrastructure: Nature Based Solutions for Sustainable and Resilient Cities” Orvieto 4-7 April (+400 registered participants) www.greeninurbs.com/finalconference

2016 Organizer and Chair of the International Workshop and side event of the IFLA World Congress “Green Infrastructures and Urban Forests in the Urban Planning: New Approaches and Challenges” Torino, 18-19 Aprile (about 100 participants), http://www.greeninurbs.com/green-infrastracture-urban-forest-in-the-urban-planning-new-approaches-and-challenges/

2014 Organizer of the International Workshop “Green Infrastructures and urban forests for improving the environment and the quality of life” Roma, 17 Novembre (about 100 participants)

2010 Organizer of the International Summer School on "Life in Extreme Environments" in Pieve Tesino, Italy (40 students, 13 Teachers)

2009 Organizer of the International Workshop on “Life In Extreme Environments” Viterbo, 25 Giugno (30 participants)

• SUPERVISION OF PhD AND POSTDOC AND THESIS

Supervised Postdocs: 7 (Gabriele Guidolotti, Emanuele Pallozzi, Olga Gavrickova, Gregorio Sgrigna, Silvia Portarena, Rocco Pace, Enrica Nestola)/ PhD: 10 (Arianna Morani, Gregorio Sgrigna, Ilaria Lusini, Mauro Medori, Enrica Nestola, Raffaela Esposito, Federica Revoltella, Martina Ristorini, Maaz Haasmi, Martina Della Casa)/ Master Thesis 20

• TEACHING DUTIES

2018 – 2024 Qualified Full Professor (Professore I fascia) sector 07/B2
2015 – 2019 Professor in “Trees and plants to improve air quality of urban areas" within the dual degree “Management and design of urban green infrastructure" in collaboration between Università della Tuscia and RUDN Moscow University
2013 – 2015 Professor at l’Università della Tuscia, Viterbo, for the course “Alberi e Foreste per il miglioramento dell’ambiente urbano”
2008 – 2010 Supervisor of thesis laboratory in "Planning and management of the Environment" in Bracciano (Rome) in collaboration between Università "La Sapienza" Roma and Università della Tuscia, Viterbo
2008 – 2009 Professor in Urban Forestry at the International Dual Degree "Environmental Science for Large Urban Areas" in collaboration between Università della Tuscia, Italy and PACE University, New York, USA

2005 – now Invited for lessons and seminars in a number of Universities/Institutions in Europe and USA

• ASSIGNMENTS FOR INTERNATIONAL PHD THESIS

University of Wollongong, 2023 (Reviewer)
University of Copenhagen, 2015 (Opponent)
University of Helsinki, 2015 (Opponent)
University of Tartu, 2013 (Opponent
Technical University of Denmark, 2013 (Opponent)
University of Antwerp, 2013 (Committee Member)
University of Eastern Finland, 2012 (Opponent)

• INTERNATIONAL INSTITUTIONAL RESPONSABILITIES

2023 – now Italian Nominated Delegate for EUROPARC
2023 – now Italian Nominated Delegate for EFI
2016 – now European Commission Expert for NBS area (EU invited Expert in international events)
2015 – now Focal Point for Italy of the ICOS-Research Infrastructure Integrated Carbon Observation System
2013 – now PI of the ICOS Station of Capodimonte, Naples Associated site for ICOS-Eric
2015 – 2022 Italian Nominated substitute Delegate for EUROPARC
2015 – 2022 Italian Nominated substitute Delegate for EFI
2019 – 2020 EU Commission Nominated Group of 6 Experts for “Analysis of EU-funded projects on Nature-based Solutions”
2016 – 2017 Co-Chair of the Expert Working Group Nature Based Solutions (NBS) selected by H2020EKLIPSE-EU Commission/DG Research (http://www.eklipse-mechanism.eu/nbs_report)
2013 – 2016 Member of the Scientific Committee "Life, Environmental and Geosciences" of Science Europe
2010 – 2019 Member of the Centre of Excellence “Czechglobe” for studies on Climate Changes of the AVCR, Brno, CZ
2007 – 2011 Management Committee Member of the COST Action FP0701 "Post-fire Forest Management in Southern Europe”
2003 – 2006 Scientific Secretary of the FP6 project “EUROFACE”

• ROLES AND RESPONSABILITIES AT NATIONAL LEVEL

2020 – now Member of the National Committee on Natural Capital at Ministry of Environment
2016 – now Member of the National Committee MAB-UNESCO at Ministry of Environment
2018 –Acting Director of IRET from 19/09/2018
2018 President of the Commission for the competition BANDO n. 366.46 for the selection of 3 Permanent Researchers at CNR
2018 - Acting Director of IBAF from 01/06/2018
2018 Scientific Coordinator of the project proposal PON ICOS-ERIC infrastructure
2014 – 2019 Coordinator and contact person of CNR project area "Gestione sostenibile ed efficiente delle risorse naturali, degli ecosistemi e della biodiversità"
2016 Member of the Institute Advisory Board at IBAF
2016 Member of the Committee for the competition BANDO N. 368.24 RIC – for the seletion of 3 Permanent Researchers at CNR
2015 – Member of the Commission for the selection of a technologist in IBAF
2015 - Member of the Commission for the selection of a researcher in IBAF
2014 – 2019 Responsible of the CNR Strategic Area “Resources and Ecosystems”
2013 -2016 Coordinator of the thematic area ”Global Change and terrestrial vegetation: Atmosphere-biosphere exchange

2013 - Member of the CNR working group for the project about the enlargement of the airport A. Vespucci in Florence enlargement
2010 – Safety member at the gas exchange lab at IBAF in Montelibretti site
2010 – now President and member of several commission for scholarships and fellowships at CNR
2003 Winner of the Prize "Idea-Impresa" Bic-Lazio, Italia

• MEMBER OF THE EDITORIAL BOARD OF INTERNATIONAL JOURNALS

2018 – now Associate Editor of Journal of Ecosystem Health and Sustainability, IF. 4.80
2017 – now Associate Editor of Forests, IF. 3.28
2016 – now Editorial Board of Forests (MDPI)
2014 – now Editorial Board of Journal of Ecosystem Health and Sustainability
2014 – now Editorial Board of AIMS Environmental Science
2012 – now Editorial Board of The Scientific World Journal
2011 – 2016 Editorial Board of the Journal of Environmental Quality
2010 – now Editorial Board of Open Forest Science Journal

• EDITOR OF BOOKS OR SPECIAL ISSUES

2021 Co-Editor of the Book "Advanced Technologies for Sustainable Development of Urban Green Infrastructure. Editors: Vasenev VI, E Dovletyarova, R Valentini, Z Cheng, C Calfapietra, L Inostroza Fernández, Leuchner. Springer Nature: 331 p.
2020 Co-Editor of the Book "Green Technologies and Infrastructure to Enhance Urban Ecosystem Services. Editors: Viacheslav Vasenev, Elvira Dovletyarova, Zhongqi Cheng, Riccardo Valentini, Carlo Calfapietra. Springer Nature: 280 p.
2017 Co-Editor of the Book "The Urban Forest Cultivating Green Infrastructure for People and the Environment Editors: Pearlmutter, D., Calfapietra, C., Samson, R., O'Brien, L., Krajter Ostoić, S., Sanesi, G., Alonso del Amo, R. (Eds.) Springer, 2017
https://www.springer.com/gp/book/9783319502793
2017 Guest Editor Special Issue titled "Green Infrastructures: Nature Based Solutions for Sustainable and Resilient Cities" in press on Urban Forestry Urban Greening (IF: 2.0)
https://www.journals.elsevier.com/urban-forestry-and-urban-greening/news/special-issue-in-preparation-green-infrastructure-nature-bas
2016 Guest co-Editor Special Issue: "The Urban Forest and Ecosystem Services: Tree, Street and City Scale" Journal of Environmental Quality (IF: 2.65)

• ACTIVITY AS REVIEWER AND EVALUATOR

2019-2024 Chair of the Evaluation Panel BIO3 for Flemish Research Council (FWO)
2020-2021 Chair of the Evaluation Panel "Forestry" for Academy of Finland
2022 Member of the Evaluation Panel for the Call HORIZON-CL6-2022-COMMUNITIES-01-05 - for European Commission
2020 Member of the evaluation panel of mid-term progress of H2020 projects for European Commission
2018-2019 Evaluation Panel Member for Academy of Finland
2017 Panel Member for European Science Foundation
2017 Evaluator for Sardegna Ricerche
2015 – 2016 Reviewer for Austrian Science Fund
2016 Evaluator for Belmont Forum initiative
2015 Evaluator for MISE
2011 – 2017 Evaluator for Ministry of Education and Research of Romania
2012 Evaluator for MIUR
2012 Evaluator for Ministry of Education and Research of Estonia
2012 & 2016 Evaluator for FWO, Belgium

2011 – 2016 Evaluator for NSF, USA
2010 Evaluator for Academy of Sciences of Czech Republic
2009 Evaluation Panel Member for ANR Call "La 6ème Extinction", France
2003 – now Reviewer for the Journals: Nature Geoscience, Plant Physiology, New Phytologist, Global Change Biology, Oecologia, Environmental Science & Technology, Plant Cell & Environment, Tree Physiology, Environmental Pollution, Atmospheric Environment, Functional Plant Biology, Plant Pathology, Annals of Forest Science, Journal of Environmental Management and others

COMPETITIVE PROJECTS OBTAINED AS PI (ranked for funding and starting from PNRR ones)

Title of the project	*Financing Organisation*	*Calfapietra's budget*	*Period of time*	*Calfapietra's role*
ITINERIS – Italian Integrated Environmental Research Infrastructures System www.itineris.cnr.it	MUR – PNRR (Research Infrastructures)	6500 K€ (Total IRET 22M€, Total project 150 M€)	2022-2026	Responsible of the IRET Team
National Biodiversity Future Centre www.nbfc.it	MUR – PNRR (national centres)	2500 K€ (total IRET 9500 K€, Total CNR 106 M€, Total project 320 M€)	2022-2026	Responsible of the whole CNR & Spoke Leader
ProICOSMed (Potenziamento della Rete di Osservazione ICOS-Italia nel Mediterraneo)	EU-MIUR (PON-Infrastrutture)	4122 K€ (total of the project 13887 K€)	2019-2022	Scientific Coordinator of the project
I-AMICA (High-technology infrastructure for the integrated environmental-climatic monitoring http://www.i-amica.it/i-	EU-MIUR (PON-Infrastructure)	2204 K€ (total of the project 20604 K€)	2012-2015	WP and OU coordinator SC Member

amica/?page_id=569				
COST FP1204 (GreenInUrbs) Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests http://www.cost.eu/domains_actions/fps/Actions/FP1204	EU-ESF-COST (dal 2015, H2020-COST)	706 K€	2013-2017	Chair (Coordinator) Grant Holder Institution
PROGIREG (Productive Green Infrastructure for post-industrial urban regeneration) www.progireg.eu	EU-H2020	591K€ (total of the project 11700K€)	2018-2023	WP leader & Vice-Coordinator of the project
ICOS Research Infrastructure Integrated Carbon Observation System https://www.icos-ri.eu/icos-research-infrastructure/icos-national-networks/icos-national-networks-contacts	MUR-CNR	500 K€ per year	2016-now	Italian Focal Point and JRU Coordinator
CIR-ProICOSMEd	EU-MIUR PON Human	450K€ (Total of the project 1900K€)	2021-2025	Scientific Coordinator of the project

	Capital			
EUFORICC (Establishing Urban Forest based solutions in Changing Cities) www.euforicc.it	MIUR-PRIN	350K€ (total of the project 1200K€)	2019-2022	Scientific Coordinator of the Project
RITMARE www.ritmare.it	MIUR	300 K€	2012-2017	OU Coordinator
Nextdata-Progetto speciale: Carbon and water fluxes in mountain forest and grassland ecosystems from leaf to eco system level: effects of climate variability and management http://www.nextdataproject.it/?q=en	MIUR	200 K€	2014-2018	Coordinator
"CAREX", A European platform for research on life in extreme environments	EU-CSA	193 K€	2008-2011	OU Co-Responsible SC Member
OT4CLIMA Sviluppo di tecnologie innovative di Osservazione della Terra per lo studio del Cambiamento Climatico e dei suoi impatti su	PON	190K€	2018-2021	Member of the coordination group. OU Responsible

ambiente e territorio				
SWARM-Smart Water Resource Management	EU-MIUR (Smart Cities)	167 K€	2016-2021	WP and OU Responsible
GLOBALVOC Understanding global change effects on VOC emission in Populus from eco-physiological to molecular level	EU-Marie Curie	129 K€	2005-2007	Fellow-Coordinator
NEUFOR-Modelli innovativi di analisi dei servizi ecosistemici nell'ambito di formazioni boschive urbane e periurbane	MIUR (PRIN)	145K€ (cost for unit) 102K€ (financing)	2014-2017	OU Coordinator
ECOPOTENTIAL improving future ecosystem benefits through earth observations	EU-H2020	100 K€	2015-2019	Member of CNR Unit, project coordinator UO responsible
Agreement for the organization of the 1st World Forum on Urban Forestry	FAO	85 K€	2018	Coordinator
PALMO-Piani di Adattamento Locale in ambito	MIUR	80 K€ (total of the project 500 K€)	2015-2017	Coordinator

Montano Mediterraneo				
Assessing interactions between Volatile Organic Compounds (VOC) and ozone in forests under extreme climatic events	CZ-MSMT	68 K€	2013-2016	Coordinator (MSMT-9339/2013-311 LD13031 del 05/02/2013)
Era4CS Serv_ForFIRE Integrated services and approaches for assessing effects of climate change and extreme events for fire and post fire risk prevention (Member of Coordination team)	ERANET Climate	60 K€	2017-2019	Member of the coordinating group , Institute PI
ERASMUS + Menvipro (Modernization of Environment Protection Studies Programmes for Armenia and Georgia / MENVIPRO)	EU	59 K€	2018-2022	UO Responsible
RIFORTER-Studio di RIqualificazione della FOResta urbana per il miglioramento della qualità	Fondazione CARIT, Comune e Provincia di Terni	50 K€	2012-2015	Coordinator

dell'aria della conca ternana				
Attività di consulenza e progettazione per la gestione del patrimonio verde di ATER Roma	DECA	28 k€	2017-2020	Coordinator
Innovazione per la difesa e la qualità delle produzioni viticole nello scenario delle prossime emergenze ambientali	PSR Umbria	23 K€	2018-2020	OU Responsible
PAUL Pilot Application in Urban Landscapes towards integrated city observatories for greenhouse gases	H2020	20K€	2021-2026	OU Responsible
Bilateral project - BVOC emission under extreme climatic conditions	CNR-AVCR	15 k€	2013-2015	Coordinator
Bilateral project- Carbon Losses from semiarid ecosystems	CNR-CSIC	8 k€	2011-2012	Coordinator

INTERVIEWS and ARTICLES ON NATIONAL MEDIA

Il Sole 24 Ore – 31 October 2023
Tg Rai 2 – 22 May 2023
Radio3 Scienza – LIVE 22 May 2023
Quasar RAI 2 – 20 May 2023
Tgr Rai News 24 – 13 April 2023
Linea Verde – Rai 1 25 March 2023
Class journal - February 2019

Il Sole 24 ore - 21 November 2018
https://mobile.ilsole24ore.com/art/impresa-e-territori/2018-11-21/mantova-capitale-mondiale-delle-foreste-urbane-ogni-euro-investito-in-alberi-ne-rende-tre/AEh4BpkG

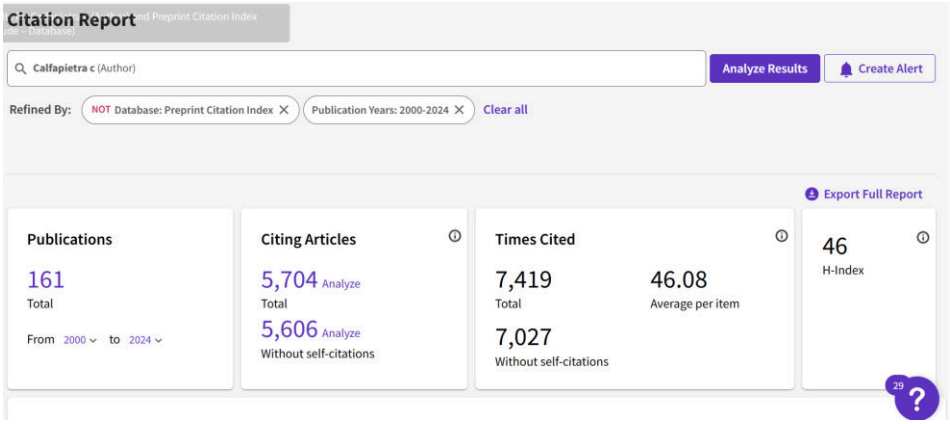
Radio 1 "Radio anch'io" live - 30 October 2018
Venerdì di Repubblica 10 November 2017

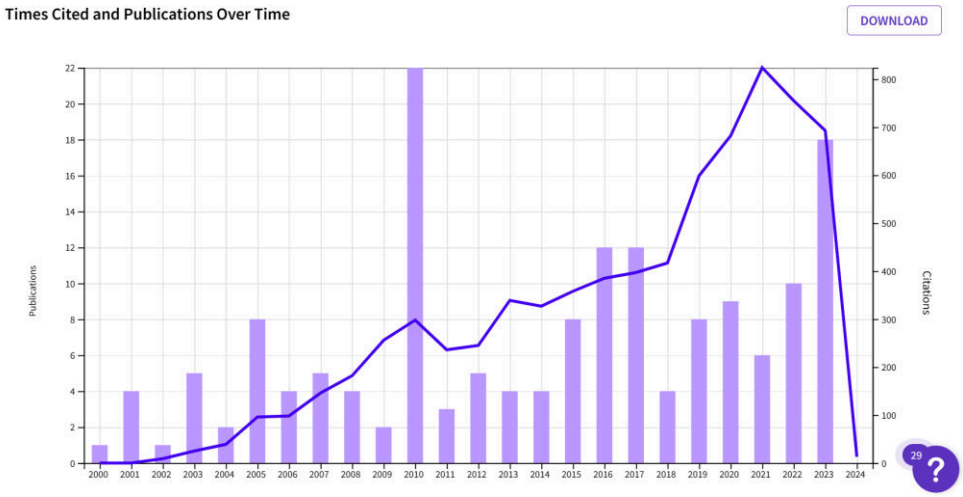
Repubblica - 3 November 2016
http://www.repubblica.it/scienze/2016/11/03/news/una_citta_salvata_dagli_alberi-151236781/?ref=HREC1-15

RAI Memex and RAI 2 - 12 Dicember 2015
http://www.raiscuola.rai.it/articoli/memex-il-futuro-degli-ecosistemi/31924/default.aspx

PUBLICATIONS

Metrics Downloaded from WebofScience on 27/12/2023





*corresponding author

2024
LABRA, CENA, CALFAPIETRA et al. 2024. Biodiversity and Planetary Health. A Call for Integrated Action -The National Biodiversity Future Centre. The Lancet, in press.

2023
TIAN R; JOUNI P; FAITH KA SHUN C; YAOYANG X; BALDACCHINI C; CALFAPIETRA C. 2023. A lack of focus on data sharing, stakeholders, and economic benefits in current global green infrastructure planning. Journal of Environmental Management 351: Page119849 DOI10.1016/j.jenvman.2023.119849

GARDNER A, JIANG MK, ELLSWORTH DS, MACKENZIE AR, PRITCHARD J, BADER MKF, BARTON CVM, BERNACCHI C, CALFAPIETRA C, CROUS KY et al. 2023. Optimal stomatal theory predicts CO2 responses of stomatal conductance in both gymnosperm and angiosperm trees. New Phytologist 237: 1229-1241 DOI10.1111/nph.18618

RISTORINI M, GUIDOLOTTI G, SGRIGNA G, JAFARI M, KNAPPE D, GARFI V, BALDACCHINI C, TIMPE A, CALFAPIETRA, C 2023. Nature-based solutions in post-industrial sites: Integrated evaluation of atmospheric pollution abatement and carbon uptake in a German city. Urban Climate 50 DOI10.1016/j.uclim.2023.101579.

POLLEGIONI P, CARDONI S, MATTIONI C, PIREDDA R, RISTORINI M, OCCHIUTO D, CANEPARI S, KORNEYKOVA MV, SOSHINA AS, CALFAPIETRA C, GAVRICHKOVA O. 2023. Variability of airborne microbiome at different urban sites across seasons: a case study in Rome. Front. Environ. Sci., Volume 11 – 2023, https://doi.org/10.3389/fenvs.2023.1213833

SCARTAZZA A, HUARANCCA REYES T, BRETZEL F, PINI R, GUGLIELMINETTI L, CALFAPIETRA C. 2023. Has COVID-19 Lockdown Affected C and N Level and Isotope Composition in Urban Soils and Plant Leaves? Ecosystem Health and Sustainability 9:0117. DOI:10.34133/ehs.0117

REZAIE, N., D'ANDREA, E., SCARTAZZA, A., GRIČAR, J., PRISLAN, P., CALFAPIETRA, C., BATTISTELLI, A., MOSCATELLO, S., PROIETTI, S., MATTEUCCI, G. 2023. Upside down and the game of C allocation. Tree Physiology, DOI10.1093/treephys/tpad034

N REZAIE, E PALLOZZI, P CICCIOLI, C CALFAPIETRA, S FARES 2023. Temperature dependence of emission of volatile organic compounds (VOC) from litters collected in two Mediterranean ecosystems determined before the flaming phase of biomass burning Environmental Pollution 338, 122703

2022
GAVRICHKOVA O., PRETTO G., BRUGNOLI E., CHITI T., IVASHCHENKO K. V., MATTIONI M., MOSCATELLI M.C., SCARTAZZA A., CALFAPIETRA, C. 2022. Consequences of Grazing Cessation for Soil Environment and Vegetation in a Subalpine Grassland Ecosystem. Plants, 11(16), 2121

PACE R, CHIOCCHINI F, SARTI M, ENDRENY TA, CALFAPIETRA C, CIOLFI M. 2022. Integrating Copernicus land cover data into the i-Tree Cool Air model to evaluate and map urban heat mitigation by tree cover, European Journal of Remote Sensing. https://doi.org/10.1080/22797254.2022.2125833

GAGLIO M, PACE R, MURESAN AN, GROTE R, CASTALDELLI G, CALFAPIETRA C, FANO EA. 2022. Species-specific efficiency in PM2.5 removal by urban trees: From leaf measurements to improved modeling estimates. Science of the Total Environment 844, 157131.

NESTOLA E, G SGRIGNA, E PALLOZZI, L CACCAVALE, G GUIDOLOTTI, C CALFAPIETRA. 2022. Experimental Characterization of Particulate and Gaseous Emissions from Biomass Burning of Six Mediterranean Species and Litter. Forests 13 (2), 322

HUARANCCA REYES T, SCARTAZZA A, BRETZEL F, DI BACCIO D, GUGLIELMINETTI L, PINI R, CALFAPIETRA C. 2022. Urban conditions affect soil characteristics and physiological performance of three evergreen woody species. Plant Physiology and Biochemistry. 171: 169-181.

G SGRIGNA, H RELVAS, AI MIRANDA, C CALFAPIETRA. 2022. Particulate Matter in an Urban–Industrial Environment: Comparing Data of Dispersion Modeling with Tree Leaves Deposition. Sustainability 2022, 14, 793

PACE R, MASINI E, GIULIARELLI D, BIAGIOLA L, TOMAO A, GUIDOLOTTI G, AGRIMI M, PORTOGHESI L, DE ANGELIS P, CALFAPIETRA, C. 2022. Tree measurements in the urban environment: insights from traditional and digital field instruments to smartphone applications. Arboriculture & Urban Forestry 48(2):113-123.

2021

ELFERJANI R, L BENOMAR, M MOMAYYEZI, R TOGNETTI, Ü NIINEMETS, R Y SOOLANAYAKANAHALLY, G THÉROUX-RANCOURT, T TOSENS, F RIPULLONE, S BILODEAU-GAUTHIER, M S LAMHAMEDI, C CALFAPIETRA, M LAMARA. 2021. A meta-analysis of mesophyll conductance to CO2 in relation to major abiotic stresses in poplar species. Journal of experimental botany 72 (12), 4384-4400

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Carlo Calfapietra