

Curriculum Vitae

Prof. Carlo Andreotti

Free University of Bozen/Bolzano

Faculty of Agricultural, Environmental and Food Sciences

Education

- 2002 - Ph.D. in “Fruit Tree, Forestry and Ornamental Agro-Ecosystems”, University of Bologna.
Thesis title: ‘Phenolic compounds of *Pyrus communis*: cultivar characterization and evaluation of their role in plant response to abiotic and biotic stresses’
- 1997 - Laurea (equiv. to M.Sc.) in Agricultural Sciences, University of Bologna

Academic positions

- Current position: Associate Professor at the Free University of Bozen/Bolzano (unibz) since 2015

National Scientific Habilitation (ASN) as full professor (Abilitazione Scientifica Nazionale alle funzioni di professore universitario di prima fascia nel Settore Concorsuale 07/B2 - SCIENZE E TECNOLOGIE DEI SISTEMI ARBOREI E FORESTALI. Validità dal 03/06/2021 al 03/06/2032).

- Previous academic positions:
 - o Assistant Professor (Researcher) at unibz from 2009 to 2014
 - o Researcher at CRA (Consiglio Nazionale per le Ricerche in Agricoltura) at the Fruit Production Unit in Forlì (FC) from 2008-2009
 - o Research Assistant (with post doctorate fellowships) at the Dipartimento Colture Arboree of the University of Bologna from 02/2002 to 01/2007
 - o Contract Professor at the University of Teramo (Faculty of Agriculture) for the course “Morphology and physiology of grapevine”, Academic Years 2004-2005, 2005-2006, 2006-2007;
 - o Contract Professor at the University of Teramo (Faculty of Agriculture) for the course “Cytology, anatomy and plant physiology”, Academic Year 2007-2008

DIDACTIC ACTIVITIES

In the last three Academic Years I taught the following courses:

- “Fruit production” (6 credits), Bc of Agricultural, Food and Mountain Environmental Sciences (L-25), at unibz. Language of the course: English;
- “Viticulture” (3 credits), Bc of Agricultural, Food and Mountain Environmental Sciences (L-25), at unibz. Language of the course: English;

- “Arboricoltura generale” (12 hours), Bc of Agricultural, Food and Mountain Environmental Sciences (L-25), at unibz. Language of the course: Italian
- “Integrated Orchard and Vineyard Management” (module of *Canopy Management*, 3 credits), International Master of Horticultural Science (LM-69, IMaHS). Course held at unibz. Language of the course: English;
- “Vineyard management in mountain areas” (3 credits), Ms in Viticulture, Enology and Wine Marketing (LM-69, VEM). Course held at unibz. Language of the course: English;

Student tutoring

Since 2009, I have been first supervisor of:

- 11 bachelor students (L-25);
- 5 master students (LM;-69 VEM);
- 9 master students (L;-69 IMaHS)
- 6 PhD students

RESEARCH ACTIVITIES

My research activities currently focuses on the following lines:

- Physiological responses of grapevine under multiple environmental stresses (focus on combined drought and heat, the “heatwave effect”)
- Vineyard/orchard management and adaptation to climate change. Implementation of mitigation strategies to increase vineyards’ resilience and sustainability, such as:
 - o Canopy management techniques (defoliation, antitranspirant, film-forming technologies)
 - o The use of biochar as amendment of vineyard soils (impact on grapevine physiological responses, soil carbon storage potential and greenhouse gasses emission;
 - o The use of biostimulants to improve grapevine (and other fruit crops) tolerance toward abiotic stresses and to increase fruit quality and storability.

These researcher activities are (were) performed within research projects, some of them are listed below.

Recent research projects

Project duration	Role	Financing Institution	Title of the project
12/10/2023 - 11/10/2025	Unit responsible	PRIN 2022	Assessment and valorization of biochar amendment for promoting soil health, carbon storage and sustainable viticulture (BIO-C-VITE)

01/09/2022 - 31/08/2025	Team member	Ministerial funding	National Research Centre for Agricultural Technologies (Agritech)
15/12/2021 - 14/12/2024	Principal investigator (PI)	unibz-CRC	Use of biochar as soil amendment in vineyard: effect on nitrogen balance and water availability for grapevine (CHAR_GOAL)
16/01/2020 - 15/07/2022	Principal investigator (PI)	unibz-CRC	Use of biostimulants to promote drought tolerance in fruit crops (BIO-DROPS)
01/10/2020 - 31/12/2022	Research Unit (RU) member	Autonomous Province of Bolzano	Effect of climate extremes on grapevine production in South Tyrol: early detection of abiotic stress and consequences for wine quality (CLEVAS)
01/12/2019 - 31/05/2023	RU member	unibz-CRC	Water losses and carbon assimilation in the vineyard as affected by changes of environmental drivers (WAVE)

Recent presentations at congresses and workshops (oral presentations)

- Workshop “Impiego del biochar in viticoltura: Convegno finale progetto PRIN BIO C VITE”. Firenze, 02/02/2026. Oral presentation titled “Impiego del biochar in un vigneto di montagna”, Carlo Andreotti, Libera Università di Bolzano.
- Frutech, 27-29/11/2025, Catania. Oral presentation titled “Impiego dei biostimolanti in frutticoltura: opportunità e sfide per il futuro”. Carlo Andreotti, Libera Università di Bolzano
- Andreotti C. (2024). Mitigation strategies in viticulture to deal with stresses caused by climate change. 2nd Tokaj Wine Congress, Sárospatak, Hungary, 27-30 October, 2024
- Accademia dei Georgofili, giornata di studio “LA SOSTENIBILITÀ NELLA FILIERA PRODUTTIVA FRUTTICOLA”, Firenze, 21/10/2024. Oral presentation “Impiego di biostimolanti in frutticoltura: casi di studio su melo, fragola e vite”. Carlo Andreotti, Libera Università di Bolzano.
- Workshop “Impiego del biochar in viticoltura: risultati dal progetto PRIN-PNRR BIO-C-VITE”, Bolzano, 8 novembre 2024. Oral presentation “Impiego di biochar come ammendante del suolo in un vigneto di montagna: effetti agronomici ed ambientali”. Carlo Andreotti, Libera Università di Bolzano
- Andreotti C. (2024). The use of biochar as soil amendment in a mountain vineyard: findings from a long-term experiment. 8th ICHAR Biochar School 2024 - The biochar option in viticulture. Florence, Italy, 14-15 October 2024
- Giornata di Formazione per tecnici e istituzioni a cura dei partenariati PRIN e PSR, Tebano 30/05/2024. Oral presentation “Effetti nel medio periodo dell’impiego di biochar in un vigneto di montagna”. Carlo Andreotti, Libera Università di Bolzano
- CORSO AVANZATO SUI BIOSTIMOLANTI E BIOCONTROLLO DELLE AVVERSITÀ. Istituto Emiliani, Brisighella (RA), 21-23 febbraio 2024. Invited presentation: “Applicazione dei biostimolanti in frutticoltura” by Carlo Andreotti.

- IL BIOCHAR PER AUMENTARE LA SOSTENIBILITÀ DELLA VITICOLTURA NEL COMPARTO BIOLOGICO: FOCUS SUL PROGETTO B-WINE. Castelnuovo Berardenga (SI), 19/01/2024. Invited presentation: “Progetto PRIN 2022 BIO-C-VITE - Assessment and valorisation of biochar amendment for promoting soil health, carbon storage and sustainable viticulture” by Carlo Andreotti.
- VITICOLTURA E BIOCHAR: EVIDENZE E PROSPETTIVE FUTURE. Accademia dei Georgofili, Firenze 20 April, 2023. Invited presentation: “Biochar e viticoltura di montagna: indicazioni da un caso di studio in Alto Adige” by Carlo Andreotti.
- IX CONVEGNO NAZIONALE DI VITICOLTURA (CONAVI). Conegliano, 13-15 June, 2022. Oral presentation “Application of different commercial biostimulants to enhance vine tolerance toward drought stress” by Fadwa Benyahia, Francesco Giovanelli, Carina Veronica Gonzalez and Carlo Andreotti.
- BIOSTIMOLANTI CONFERENCE. Bari, 2-3 Marzo 2022. Invited presentation titled “Impiego dei biostimolanti per la gestione degli stress idrici e nutrizionali di vite e fragola” by Carlo Andreotti.
- BIOSTIMOLANTI IN ORTOFLOROFRUTTICOLTURA, webinar organized by the Italian Society for Horticultural Sciences (SOI) on the 26th of November, 2020. Title of the oral presentation: “Impiego dei biostimolanti in frutticoltura” by Carlo Andreotti.
- BIOCHAR: FILIERA E PROSPETTIVE IN ALTO ADIGE, conclusive event of the EFRE-FESR project Wood_Up held online on the 23rd of October, 2020. Oral communication titled “Effetti dell’impiego del biochar come ammendante sulle relazioni idriche e sul ciclo dell’azoto di piante di vite” by Carlo Andreotti.

Editorial activities

- Associate Editor of *Italus Hortus*, scientific journal of the Italian Society for Horticultural Sciences (SOI) since 2019;
- Reviewer for several journals, including:
 - o Scientia Horticulture
 - o Agricultural and Forest Meteorology
 - o Agricultural Water Management
 - o Frontiers
 - o European Journal of Horticultural Science
 - o Agronomy

Congress organization

- Convener of the XI Convegno Nazionale di Viticoltura, Bolzano 9-11 giugno 2026 (in preparation)
- Co-convener of the XI Giornate Scientifiche SOI, Bolzano 14-16 September 2016

INSTITUTIONAL ASSIGNMENTS

- President of the Joint Studies Committee (2023-ongoing)

- Coordinator of the study programme IMaHS at unibz (2023-ongoing)
- Coordinator of the study programme VEM at unibz (for the year 2022 only)
- Second member of the Study Course Council L-25 (2010-2023);
- Member of the PhD commission (Mountain Environment and Agriculture);
- Member of the Council of the Faculty of Agricultural, Environmental and Food Sciences;
- Member of several commissions for the selection of researchers (RTD) and research assistants (AR) mainly for the scientific sector AGR/03;
- Appointed by the Faculty as scientific coordinator of the unibz greenhouse in Laimburg (2020-ongoing).

LANGUAGES

- Italian (first language)
- English (Cambridge FCE level C1)
- German: B2 (Goethe-Zertifikat B2)

SCIENTIFIC PUBLICATIONS

- Scopus Author ID: 6602497222
- <https://orcid.org/0000-0003-2588-8723>
- Bibliometric indicators on Scopus (February 2026): h-index:23; 68 documents; 1.821 citations.
- See below for the publication list

Bolzano, February 2026

Prof. Carlo Andreotti

Publications by Prof. Carlo Andreotti (date: 05/02/2026)

Papers published in scientific journals

1. Benyahia, F., Gonzalez, C. V., Ben Abdelkader, A., Asensio, D., Kadison, A., Haas, F., Raifer, B., Wohlfahrt, G., Zanotelli, D., Tagliavini, M., **Andreotti, C.** (2026). Impact of Drought Stress Timing and Intensity on Physiological Performance and Wine Quality in Two White Grapevine Cultivars Planted in a Mountain Vineyard. *Australian Journal of Grape and Wine Research*, 2026(1), 6920071. <https://doi.org/10.1155/ajgw/6920071>
2. Wegher, M., Niedrist, G., Tagliavini, M., Asensio, D., Giuliani, N., & **Andreotti, C.** (2025). Impact of leaf removal on recovery of young grapevines under heatwave conditions: A study in an ecotron environment. *OENO One*, 59(3). <https://doi.org/10.20870/oenone.2025.59.3.746>
3. Fattorini, R., Caretta, T. D. O., Benyahia, F., Zuluaga, M. Y. A., Monterisi, S., Agostini, A., **Andreotti, C.**, Cesco, S., Pii, Y. (2025). Double trouble belowground: grapevine rootstocks face drought and copper toxicity. *Frontiers in Agronomy*, 7, 1682753. <https://doi.org/10.3389/fagro.2025.1682753>
4. Basile, B., Carvalho, S. M., Corrado, G., **Andreotti, C.**, & Rogers, H. (2025). Ecological horticulture: Charting a resilient future for our discipline. *ITALUS HORTUS*, 32(1), 1-3.
5. Wenter, A., **Andreotti, C.**, Zanotelli, D., & Keller, M. (2025). Alleviating Water Stress at Veraison May Trigger Berry Shivel Disorder in Susceptible Grapevines. *American Journal of Enology and Viticulture*, 76(1). DOI: 10.5344/ajev.2025.25009
6. Tagliavini, M., Asensio, D., & **Andreotti, C.** (2025). Increasing nitrogen cycling in deciduous fruit orchards and vineyards to enhance N use efficiency and reduce N losses—A review. *European Journal of Agronomy*, 167, 127561. <https://doi.org/10.1016/j.eja.2025.127561>
7. Giuliani, N., Wegher, M., Asensio, D., Zanotelli, D., **Andreotti, C.**, & Tagliavini, M. (2025). Impact of soil water availability on apple tree physiology during heatwaves and on post-stress recovery. *Environmental and Experimental Botany*, 106161. <https://doi.org/10.1016/j.envexpbot.2025.106161>
8. Soppelsa, S., Cellini, A., Donati, I., Buriani, G., Spinelli, F., & **Andreotti, C.** (2024). Green Alternatives for the Control of Fungal Diseases in Strawberry: In-Field Optimization of the Use of Elicitors, Botanical Extracts and Essential Oils. *Horticulturae*, 10(10), 1044.
9. Criscuoli, I., Panzacchi, P., Tognetti, R., Petrillo, M., Zanotelli, D., **Andreotti, C.**, ... & Ventura, M. (2024). Effects of woodchip biochar on temperature sensitivity of greenhouse gas emissions in amended soils within a mountain vineyard. *Geoderma Regional*, 38, e00847. Criscuoli et al 2024
10. Benettin, P., Tagliavini, M., **Andreotti, C.**, di Villahermosa, F. S. M., Verdone, M., Dani, A., & Penna, D. (2024). Ecohydrological Dynamics and Temporal Water Origin in a European Mediterranean Vineyard. *Ecohydrology*, e2711.
11. Basile, B., Carvalho, S. M. P., Corrado, G., **Andreotti, C.**, & Rogers, H. (2024). Navigating the frontiers of smart horticulture: innovations and challenges. *ITALUS HORTUS*, 31(1), 140-142.
12. **Andreotti, C.**, Benyahia, F., Petrillo, M., Lucchetta, V., Volta, B., Cameron, K., Targetti, G., Tagliavini, M. and Zanotelli, D., 2024. Comparing defoliation and canopy sprays to delay ripening of Sauvignon blanc grapes. *Scientia Horticulturae*, 326, p.112736 <https://doi.org/10.1016/j.scienta.2023.112736>
13. Shtai, W., Asensio, D., Kadison, A. E., Schwarz, M., Raifer, B., **Andreotti, C.**, Hammerle A., Zanotelli, D. Haas, F., Niedrist, G. Wohlfahrt, G., Tagliavini, M. 2024. Soil water availability modulates the response of grapevine leaf gas exchange and PSII traits to a simulated heat wave. *Plant and Soil*, 1-18. <https://doi.org/10.1007/s11104-024-06536-7>

14. Benyahia, F., Bastos Campos, F., Ben Abdelkader, A., Basile, B., Tagliavini, M., **Andreotti, C.**, & Zanotelli, D. (2023). Assessing Grapevine Water Status by Integrating Vine Transpiration, Leaf Gas Exchanges, Chlorophyll Fluorescence and Sap Flow Measurements. *Agronomy*, 13(2), 464.
15. Soppelsa, S., Van Hemelrijck, W., Bylemans, D., & **Andreotti, C.** (2023). Essential Oils and Chitosan Applications to Protect Apples against Postharvest Diseases and to Extend Shelf Life. *Agronomy*, 13(3), 822.
16. Basile, B., **Andreotti, C.**, Rogers, H. and Roupael, Y., 2023. The role of horticultural research in mitigating global food and economic crises. *Italus Hortus*, 30(1), pp.1-2.
17. Zanotelli, D., Montagnani, L., **Andreotti, C.**, & Tagliavini, M. (2022). Water and carbon fluxes in an apple orchard during heat waves. *European Journal of Agronomy*, 134, 126460.
18. **Andreotti, C.**, Roupael, Y., Colla, G., & Basile, B. (2022). Rate and timing of application of biostimulant substances to enhance fruit tree tolerance toward environmental stresses and fruit quality. *Agronomy*, 12(3), 603.
19. Abdelkader, A. B., Benyahia, F., Campos, F. B., Asensio, D., **Andreotti, C.**, Tagliavini, M., & Zanotelli, D. (2022). Apple tree transpiration during cycles of progressive drought as assessed via continuous gravimetric and xylem sap flux measurements. *Italus Hortus*, 29(2), 35-46.
20. Basile, B., **Andreotti, C.**, Rogers, H., & Roupael, Y. (2022). Sustainability as the main driver of present-day horticultural advancement. *Italus Hortus*, 29(1).
21. Zanotelli, D., Tagliavini, M., Petrillo, M., & **Andreotti, C.** (2021). Foliar and root uptake of N deriving from simulated atmospheric N depositions in potted apple (*Malus domestica*) trees. *Italus hortus*, 28(3), 13-24.
22. Basile, **Andreotti, C.**, Rogers, H., & Roupael, Y. (2021). Horticultural science in the present era of mounting challenges and opportunities: *Italus Hortus* one year on. *Italus Hortus*, 28(1), 1–2.
23. **Andreotti, C.** (2020). Management of abiotic stress in horticultural crops: Spotlight on biostimulants. *Agronomy*, 10(10), 1514.
24. Petrillo, M., Zanotelli, D., Lucchetta, V., Aguzzoni, A., Tagliavini, M., & **Andreotti, C.** (2020). The use of biochar as soil amendment: Effects on nitrogen and water availability for potted grapevines. *Italus hortus*, 27(2), 28-40.
25. Soppelsa, S., Kelderer, M., Testolin, R., Zanotelli, D., & **Andreotti, C.** (2020). Effect of biostimulants on apple quality at harvest and after storage. *Agronomy*, 10(8), 1214.
26. Basile, B., Roupael, Y., Colla, G., Soppelsa, S., & **Andreotti, C.** (2020). Appraisal of emerging crop management opportunities in fruit trees, grapevines and berry crops facilitated by the application of biostimulants. *Scientia Horticulturae*, 267, 109330.
27. Basile, B., **Andreotti, C.**, Rogers, H., & Roupael, Y. (2020). Ushering horticulture into a new era of research-based novelty. *Italus hortus*, 27(1).
28. Zanotelli, D., Montagnani, L., **Andreotti, C.**, & Tagliavini, M. (2019). Evapotranspiration and crop coefficient patterns of an apple orchard in a sub-humid environment. *Agricultural Water Management*, 226, 105756.
29. Soppelsa, S., Kelderer, M., Casera, C., Bassi, M., Robatscher, P., Matteazzi, A., & **Andreotti, C.** (2019). Foliar applications of biostimulants promote growth, yield and fruit quality of strawberry plants grown under nutrient limitation. *Agronomy*, 9(9), 483.
30. Soppelsa, S., Kelderer, M., Casera, C., Bassi, M., Robatscher, P., & **Andreotti, C.** (2018). Use of biostimulants for organic apple production: Effects on tree growth, yield, and fruit quality at harvest and during storage. *Frontiers in Plant Science*, 9, 1342.

31. Wenter, A., Zanotelli, D., Montagnani, L., Tagliavini, M., & **Andreotti, C.** (2018). Effect of different timings and intensities of water stress on yield and berry composition of grapevine (cv. Sauvignon blanc) in a mountain environment. *Scientia Horticulturae*, 236, 137-145.
32. Andreotti C, Basile B, La Malfa S. (2018). Analysis of the research performed by the Italian academic scientists belonging to the research field "Arboriculture and Fruitculture", coded as AGR/03. *Italus Hortus*, 25(3), 1-11.
33. Morozova, K., **Andreotti, C.**, Armani, M., Cavani, L., Cesco, S., Cortese, L., ... & Scampicchio, M. (2017). Indirect effect of glyphosate on wine fermentation studied by microcalorimetry. *Journal of Thermal Analysis and Calorimetry*, 127, 1351-1360.
34. Nadalini, S., Zucchi, P., & **Andreotti, C.** (2017). Effects of blue and red LED lights on soilless cultivated strawberry growth performances and fruit quality. *Eur. J. Hortic. Sci*, 82(1), 12-20.
35. Canistro, D., Vivarelli, F., Cirillo, S., Costa, G., **Andreotti, C.**, & Paolini, M. (2016). Comparison between in toto peach (*Prunus persica* L. Batsch) supplementation and its polyphenolic extract on rat liver xenobiotic metabolizing enzymes. *Food and Chemical Toxicology*, 97, 385-394.
36. Valentinuzzi, F., Mason, M., Scampicchio, M., **Andreotti, C.**, Cesco, S., & Mimmo, T. (2015). Enhancement of the bioactive compound content in strawberry fruits grown under iron and phosphorus deficiency. *Journal of the Science of Food and Agriculture*, 95(10), 2088-2094.
37. Guerrero-Chavez G., Scampicchio M. & **Andreotti C.** (2015) Influence of the site altitude on strawberry phenolic composition and quality. *Scientia Horticulturae*, 192, 21-28.
38. Boschiero M., Kelderer M., Schmitt A.O., **Andreotti C.** & Zerbe S. (2015) Influence of agricultural residues interpretation and allocation procedures on the environmental performance of bioelectricity production - A case study on woodchips from apple orchards. *Applied Energy*, 147, 235-245.
39. Ravaglia D., Espley R.V., Henry-Kirk R.A., **Andreotti C.**, Ziosi V., Hellens R.P., Costa G. & Allan A.C. (2013) Transcriptional regulation of flavonoid biosynthesis in nectarine (*Prunus persica*) by a set of R2R3 MYB transcription factors. *Bmc Plant Biology*, 13.
40. **Andreotti C.**, Ravaglia D. & Costa G. (2010) Effects of Fruit Load and Reflective Mulch on Phenolic Compounds Accumulation in Nectarine Fruit. *European Journal of Horticultural Science*, 75, 53-59.
41. Botton A., **Andreotti C.**, Costa G. & Ramina A. (2009) Peach (*Prunus persica* L. Batsch) Allergen-Encoding Genes Are Developmentally Regulated and Affected by Fruit Load and Light Radiation. *Journal of Agricultural and Food Chemistry*, 57, 724-734.
42. **Andreotti C.**, Ravaglia D. & Costa G. (2009) Innovative light management to improve production sustainability, overall quality, and the phenolics composition of nectarine (*Prunus persica* cv. Stark Red Gold). *Journal of Horticultural Science & Biotechnology*, 145-149.
43. **Andreotti C.**, Ravaglia D., Ragaini A. & Costa G. (2008) Phenolic compounds in peach (*Prunus persica*) cultivars at harvest and during fruit maturation. *Annals of Applied Biology*, 153, 11-23.
44. **Andreotti C.**, Costa G. & Treutter D. (2006) Composition of phenolic compounds in pear leaves as affected by genetics, ontogenesis and the environment. *Scientia Horticulturae*, 109, 130-137.
45. Fischer T.C., Halbwirth H., Roemmelt S., Sabatini E., Schlangen K., **Andreotti C.**, Spinelli F., Costa G., Forkmann G., Treutter D. & Stich K. (2006) Induction of polyphenol gene expression in apple (*Malus x domestica*) after the application of a dioxygenase inhibitor. *Physiologia Plantarum*, 128, 604-617.
46. **Andreotti C.**, Bregoli A.M. & Costa G. (2004) Pre- and post-harvest aminoethoxyvinylglycine (AVG) application affects maturity and storage of pear fruit. *European Journal of Horticultural Science*, 69, 147-152.

47. Rademacher W., van Saarloos K., Porte J.A.G., Forcades F.R., Senechal Y., **Andreotti C.**, Spinelli F., Sabatini E. & Costa G. (2004) Impact of prohexadione-Ca on the vegetative and reproductive performance of apple and pear trees. *European Journal of Horticultural Science*, 69, 221-228.
48. Gosch C., Puhl I., Halbwirth H., Schlangen K., Roemmelt S., **Andreotti C.**, Costa G., Fischer T.C., Treutter D., Stich K. & Forkmann G. (2003) Effect of prohexadione-Ca on various fruit crops: Flavonoid composition and substrate specificity of their dihydroflavonol 4-reductases. *European Journal of Horticultural Science*, 68, 144-151.
49. Halbwirth H., Fischer T.C., Roemmelt S., Spinelli F., Schlangen K., Peterek S., Sabatini E., Messina C., Speakman J.B., **Andreotti C.**, Rademacher W., Bazzi C., Costa G., Treutter D., Forkmann G. & Stich K. (2003) Induction of antimicrobial 3-deoxyflavonoids in pome fruit trees controls fire blight. *Zeitschrift Fur Naturforschung C-a Journal of Biosciences*, 58, 765-770.
50. Bazzi C., Messina C., Tortoreto L., Stefani E., Bini F., Brunelli A., **Andreotti C.**, Sabatini E., Spinelli F., Costa G., Hauptmann S., Stammler G., Doerr S., Marr J. & Rademacher W. (2003) Control of pathogen incidence in pome fruits and other horticultural crop plants with prohexadione-Ca. *European Journal of Horticultural Science*, 68, 108-114.
51. Costa G., **Andreotti C.**, Bucchi F., Sabatini E., Bazzi C., Malaguti S. & Rademacher W. (2001) Prohexadione-Ca (Apogee®): Growth regulation and reduced fire blight incidence in pear. *Hortscience*, 36, 931-933.

Papers on Acta Horticulturae (available in Scopus)

1. Zanotelli, D., Chini, C., Benyahia, F., Andreotti, C., & Tagliavini, M. (2024, May). Microtensiometers for detecting and shaping the response of grapevine to increasing water stress levels. In EHC2024: International Symposium on Robotics, Mechanization and Smart Horticulture 1433 (pp. 103-110).
2. Zanotelli, D., Ben Abdelkader, A., Thalheimer, M., Brignach, A., Giuliani, N., Asensio, D., **Andreotti, C.** and Tagliavini, M., 2022. Drivers of apple tree transpiration rates assessed by sap flow sensors. *Acta Horticulturae* 1373 (pp. 19-24).
3. Wenter, A., Zanotelli, D., Tagliavini, M., & **Andreotti, C.** (2022). Thresholds of soil and plant water availability that affect leaf transpiration, stomatal conductance and photosynthesis in grapevines. *Acta Horticulturae*, 1335, pp. 605–611 (pp. 605-612).
4. Wenter, A., Zanotelli, D., Montagnani, L., Tagliavini, M., & **Andreotti, C.** (2017). Effects of an early-summer drought stress on leaf photosynthesis, growth and yields of grapevine in mountain conditions. *Acta Horticulturae* 1150 (pp. 457-462).
5. Savini, G., Graziano, G., Bertoldi, D., Soppelsa, S., & **Andreotti, C.** (2016). Dynamics of nutrient uptake in raspberry plants. *Acta Horticulturae* 1117 (pp. 335-340).
6. **Andreotti C.**, Castagnoli M., Maltoni M.L., Magnani S., Fontanari M., Carlini A., Marchesini A., Pititto A., Faedi W. & Baudino M. (2014) Quality and Phenolic Composition of Blueberries Cultivated in Italy. *Acta Horticulturae* 1017, (pp. 427-432).
7. **Andreotti C.**, Chavez G.G. & Zago M. (2014) Quality of Strawberry Fruits Cultivated in a Highland Area in South Tyrol (Italy): First Results. *Acta Horticulturae* 1049, (pp. 795-799).
8. **Andreotti C.**, Ravaglia D. & Costa G. (2007) Preliminary study of different fruit loads and reflective mulch effects on the phenolic composition in nectarines cv. Stark Red Gold. *Acta Horticulturae* 761, pp. 249-253.

9. Spinelli F., **Andreotti C.**, Sabatini E., Costa G., Spada G., Ponti I. & Geider K. (2006) Chemical control of fire blight in pear: Application of prohexadione-calcium, Acibenzolar-S-Methyl, and copper preparations in vitro and under field conditions. *Acta Horticulturae* 704, pp. 233-237.
10. **Andreotti C.**, Costa G. & Ragaini A. (2006) Phenolic compounds characterisation of peaches and nectarines. *Acta Horticulturae* 713, pp. 449-452.
11. Bregoli A.M., Nardoza S., **Andreotti C.**, Magnani R., Corelli-Grappadelli L., Masia A. & Costa G. (2006) Relationship between biometric and physiological parameters, application time and flower bud abscission induced by a dormancy breaking agent in peach. *Acta Horticulturae* 713, pp. 191-196.
12. Costa G., **Andreotti C.**, Spinelli F. & Rademacher W. (2006) Prohexadione-Ca: More than a growth regulator for pome fruit trees. *Acta Horticulturae* 727, pp. 107-116.
13. Costa G., Sabatini E., Spinelli F., **Andreotti C.**, Bomben C. & Vizzotto G. (2004) Two years of application of prohexadione-Ca on apple: Effect on vegetative and cropping performance, fruit quality, return bloom and residual effect. *Acta Horticulturae* 653, pp. 35-40.
14. Costa G., Sabatini E., Spinelli F., **Andreotti C.**, Mazzini F. & Spada G. (2004) Prohexadione-Ca controls vegetative growth and cropping performance in pear. *Acta Horticulturae* 653, pp. 127-132.
15. Roemmelt S., Peterek S., Treutter D., Rademacher W., Speakman J.B., **Andreotti C.**, Costa G., Sponza G., Tortoreto L., Bazzi C., Halbwirth H., Zimmermann N., Stich K. & Forkmann G. (2002) Alteration of phenylpropanoid biosynthesis of fruit trees as a tool for enhancement of fire blight resistance *Acta Horticulturae* 590, pp. 477-484.
16. Costa G., **Andreotti C.**, Miserocchi O., Noferini M. & Smith G. (1999) Near-infrared (NIR) methods to determine kiwifruit field harvest date and maturity parameters in cool store. *Horticulturae* 498, pp. 231-237.

Papers published in technical journals (scientific dissemination and third mission)

- 1- Baronti S, Vaccari F, **Andreotti C**, Greggio N, Righi S, Renella G (2025). Biochar: una strategia sostenibile e duratura per la salute del suolo in vigneto. *Mille Vigne*, 3, 2025 pp 14-16
- 2- **Andreotti, C.**, & Soppelsa, S. (2022). Carenze nutrizionali e stress idrici più tollerabili con l'impiego di biostimolanti. *Rivista di Frutticoltura e di Ortofloricoltura*, 86(2), 56-59.
- 3- Wenter A., Zanotelli D., Montagnani L., Tagliavini M., **Andreotti C.** (2019). Gestire lo stress idrico in un vigneto di montagna. *VVQ: Vigne, Vini & Qualità* n.4: 29-32.
- 4- **Andreotti, C.**, Lucchetta, V., Petrillo, M. (2019). Den Reifeprozess verzögern. *Südtiroler Landwirt* nr. 11 (07/07/2019).
- 5- **Andreotti C** (2013). Qualità delle produzioni frutticole di montagna. *ITALUS HORTUS*, vol. 20, p. 45-60, ISSN: 1127-3496
- 6- Castagnoli M, Migani M, **Andreotti C**, Maltoni MI, Faedi W (2013). Primi studi sulla coltivazione del mirtillo in Romagna. *RIVISTA DI FRUTTICOLTURA E DI ORTOFLORICOLTURA*, vol. 6, p. 38-43, ISSN: 0392-954X
- 7- **Andreotti C**, Baruzzi G, Tagliavini M (2009). Come effettuare correttamente la concimazione della fragola. *INFORMATORE AGRARIO*, vol. 25, p. 69-72, ISSN: 0020-0689
- 8- **Andreotti C**, Castagnoli M, Maltoni M. L, Magnani S, Baudino M, Fontanari M, Carlini A, Marchesini A, Pititto A, Faedi W (2009). Mirtillo, un frutto ricco di composti fenolici antiossidanti ad alto valore dietetico. *RIVISTA DI FRUTTICOLTURA E DI ORTOFLORICOLTURA*, vol. 6, p. 82-88, ISSN: 0392-954X

- 9- Bregoli Am, Nardoza S, **Andreotti C**, Magnani R, Corelli-Grappadelli L, Masia A, Costa G (2007). Aspetti biometrici, fisiologici e applicativi di un interruttore della dormienza delle gemme fiorali. RIVISTA DI FRUTTICOLTURA E DI ORTOFLORICOLTURA, vol. 7-8, p. 44-46, ISSN: 0392-954X
- 10- **Andreotti C**, Ragaini A, Costa G (2006). Caratterizzazione del profilo fenolico di alcune pesche e nettarine. RIVISTA DI FRUTTICOLTURA E DI ORTOFLORICOLTURA, vol. 7/8, p. 56-59, ISSN: 0392-954X
- 11- **Andreotti C**, Sabatini, E, Spinelli, F, Costa, G (2003). Controllo del colpo di fuoco batterico del pero mediante l'impiego del prohexadione-Ca: alcune indicazioni sperimentali. NOTIZIARIO TECNICO, vol. 66, p. 119-130, ISSN: 1125-7342
- 12- **Andreotti C**, Noferini, M, Costa, G (2003). La qualità della frutta: cos'è cambiato nell'offerta, nella domanda e nella tecnologia di valutazione. ITALUS HORTUS, vol. 10, p. 48-52, ISSN: 1127-3496
- 13- Costa G., **Andreotti C**, Miserocchi O, Noferini M, Smith G (1999). Impiego della spettroscopia NIR per la determinazione dell'epoca di raccolta in campo e dei parametri di maturazione in conservazione dei frutti di actinidia. RIVISTA DI FRUTTICOLTURA E DI ORTOFLORICOLTURA, vol. 12, p. 53-58, ISSN: 0392-954X

Book chapters

1. Petrillo, M., Zanotelli, D., Lucchetta, V., Aguzzoni, A., Tagliavini, M. and **Andreotti, C.** (2020). Impiego del biochar come ammendante: effetti sul ciclo dell'azoto e tolleranza a condizioni di stress idrico in piante di vite allevate in vaso. In "WOOD-UP Valorizzazione della filiera di gassificazione di biomasse legnose per l'energia, la fertilità del suolo e la mitigazione dei cambiamenti climatici" edited by Tonon, G., by press Bozen-Bolzano University Press, Bozano, Italy, pp. 141-168.
2. **Andreotti C.**, Scandellari F., Zanotelli D. (2019). Relazioni pianta-suolo: nutrizione minerale, apporti idrici e modelli di gestione del suolo in sistemi produttivi arborei. In "Principi di Arboricoltura" edited by Peano C. and Sottile F., EdiSES s.r.l., Napoli, Italy, pp. 187-232.
3. **Andreotti, C.**, Soppelsa, S. (2019). Uso dei biostimolanti in frutticoltura. In "Biostimolanti in agricoltura. Presupposti scientifici e applicazioni pratiche" edited by Ferrante, A., Edagricole - Edizioni Agricole di New Business Media srl, Milano, Italy, pp. 109-121.
4. **Andreotti C.**, Tagliavini M. (2015). Gestione della fertilizzazione. In: La nuova viticoltura. Edagricole – Edizioni Agricole di New Business Media Srl. Bologna, ISBN: 978-88-506-5453-6, pp: 165-184