

DR. MARIANGELA FOTELLI - CV

PERSONAL INFORMATION

NAME: **Mariangela** LAST NAME: **FOTELLI**
DATE OF BIRTH: **08 May 1975** PLACE OF BIRTH: **Xanthi, Greece**
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STUDIES

1. 1993 - 1998: Aristotle University of Thessaloniki, Dept. of Forestry and Natural Environment (Grade: Excellent).
2. 1999 –2002: PhD studies (Dr. rer. nat.) at the Chair of Tree Physiology, School of Forestry and Geosciences, Albert-Ludwig University of Freiburg, Germany (Grade: Summa cum Laude).

CURRENT POSITION

Since January 2024:

Senior Researcher at the Forest Research Institute (www.fri.gr), Research topic: Forest Ecophysiology Secretariat General or Agricultural Research, Hellenic Agricultural Organization DIMITRA (<https://agres.elgo.gr/>)

RESEARCH INTERESTS

- Ecophysiological responses to biotic / abiotic stresses at leaf, tree and ecosystem level
- Carbon, water and nitrogen balance at forest ecosystems
- Adaptation of forest ecosystems to climate change
- Contribution of forests to climate change mitigation – C sequestration
- Forest restoration plantations

FOREIGN LANGUAGES

1. **English:** *fluent*
2. **German:** *very good*

PAPERS

1. **Fotelli MN**, Radoglou KM, Constantinidou E-IA. 2000. Water stress responses of seedlings of four Mediterranean oak species. *Tree Physiology* 20: 1065-1075. <https://doi.org/10.1093/treephys/20.16.1065>
2. **Fotelli MN**, Geßler A, Peuke AD, Rennenberg H. 2001. Drought affects the competition between *Fagus sylvatica* L. seedlings and an early successional species (*Rubus fruticosus*): growth, water status and $\delta^{13}\text{C}$ composition. *New Phytologist* 151: 427-435. <https://doi.org/10.1046/j.1469-8137.2001.00186.x>
3. **Fotelli MN**, Rennenberg H, Geßler A. 2002. Effects of drought on the competitive interference of an early successional species (*Rubus fruticosus*) on *Fagus sylvatica* L. seedlings: ^{15}N uptake and

- partitioning, responses of amino acids and other N compounds. *Plant Biology* 4: 311-320. <https://doi.org/10.1055/s-2002-32334>
4. **Fotelli MN**, Nahm M, Heidenfelder A, Papen H, Rennenberg H, Geßler A. 2002. Soluble non-protein nitrogen compounds indicate changes in the nitrogen status of beech seedlings due to climate and thinning. *New Phytologist* 154: 85-97. <https://doi.org/10.1046/j.1469-8137.2002.00365.x>
 5. Awada T, Radoglou K, **Fotelli MN**, Constantinidou HI-A. 2002. Ecophysiology of three Mediterranean pine species under contrasting light regimes. *Tree Physiology* 23: 33-41. <https://doi.org/10.1093/treephys/23.1.33>
 6. **Fotelli MN**, Rennenberg H, Holst T, Mayer A, Gessler A. 2003. Carbon isotope composition of various tissues of beech (*Fagus sylvatica*) regeneration is indicative of recent environmental conditions within the forest understorey. *New Phytologist* 159: 229-244. <https://doi.org/10.1046/j.1469-8137.2003.00782.x>
 7. Collier M, **Fotelli MN**, Nahm N, Kopriva S, Rennenberg H, Hanke D, Geßler A. 2003. Regulation of nitrogen uptake by *Fagus sylvatica* on a whole plant level: interactions between cytokinins and soluble N compounds. *Plant, Cell and Environment* 20: 1549-1560. <https://doi.org/10.1046/j.1365-3040.2003.01079.x>
 8. **Fotelli MN**, Rienks M, Rennenberg H, Geßler. 2004. Climate and forest management affect ¹⁵N-uptake, N balance and biomass of European beech seedlings. *Trees: structure and function* 18: 157-166. DOI: [10.1007/s00468-003-0289-4](https://doi.org/10.1007/s00468-003-0289-4)
 9. **Fotelli MN**, Rudolph P, Rennenberg H, Geßler A. 2004. Irradiance and temperature affect the interference of the early successional *Rubus fruticosus* L. on the physiological performance of European beech seedlings. *New Phytologist* 165: 453-462. <https://doi.org/10.1111/j.1469-8137.2004.01255.x>
 10. Nahm M, Radoglou K, Rennenberg H, Chalvopoulos G, **Fotelli MN***. 2006. Physiological performance of beech (*Fagus sylvatica* L.) at its south-eastern distribution limit in Europe: Seasonal changes in nitrogen, carbon and water balance. *Plant Biology* 8: 52-63. <https://doi.org/10.1055/s-2005-872988>
 11. **Fotelli MN**, Nahm M, Radoglou K, Rennenberg H, Matzarakis A. 2009. Seasonal and interannual ecophysiological responses of beech (*Fagus sylvatica*) at its south-eastern distribution limit in Europe. *Forest Ecology and Management* 257: 1157-1164. [10.1016/j.foreco.2008.11.026](https://doi.org/10.1016/j.foreco.2008.11.026)
 12. Kalloniati C, Tsikou D, Lampiri V, **Fotelli MN**, Rennenberg H, Chatzipavlidis I, Fasseas C, Katinakis P, Flemetakis E. 2009. Characterization of a Mesorhizobium loti a-type carbonic anhydrase and its role in symbiotic nitrogen fixation. *Journal of Bacteriology* 8: 2593-2600. [10.1128/JB.01456-08](https://doi.org/10.1128/JB.01456-08)
 13. Liakoura V, **Fotelli MN**, Rennenberg H, Karabourniotis G. 2009. Should structure–function relations be considered separately for homobaric vs. heterobaric leaves? *American Journal of Botany* 3: 612-619. [10.3732/ajb.0800166](https://doi.org/10.3732/ajb.0800166)
 14. **Fotelli MN**, Radoglou K, Nahm M, Rennenberg H. 2009. Climate effects on the N balance of beech (*Fagus sylvatica*) at its south-eastern distribution limit in Europe. *Plant Biosystems*, 143, supplement 34-45. <https://doi.org/10.1080/11263500903186813>
 15. **Fotelli MN**, Tsikou D, Koliopoulou A, Aivalakis G, Katinakis P, Udvardi MK, Rennenberg H, Flemetakis E. 2011. Nodulation enhances dark CO₂ fixation and recycling in the model legume *Lotus japonicus*. *Journal of Experimental Botany* 8: 2959-2971. <https://doi.org/10.1093/jxb/err009>
 16. Sumbele S, **Fotelli MN**, Nikolopoulos D, Tooulakou G, Liakoura V, Liakopoulos G, Bresta P, Dotsika E, Adams M, Karabourniotis G. 2012. Photosynthetic capacity is negatively correlated with the concentration of leaf phenolic compounds across a range of different species. *AoB PLANTS* 2012: pls025. [10.1093/aobpla/pls025](https://doi.org/10.1093/aobpla/pls025)
 17. Tsikou D, Kalloniati Ch, **Fotelli MN**, Nikolopoulos D, Katinakis P, Udvardi MK, Rennenberg H, Flemetakis E. 2013. Cessation of photosynthesis in *Lotus japonicus* leaves leads to

- reprogramming of nodule metabolism. *Journal of Experimental Botany* 64: 1317-1332. [10.1093/jxb/ert015](https://doi.org/10.1093/jxb/ert015)
18. Baeten L, Verheyen K, Wirth C, Bruelheide H, Bussotti F, Finér L, Jaroszewicz B, Selvi F, Valladares F, Allan E, Ampoorter E, Auge H, Avăcăriței D, Barbaro L, Bărnoaiea I, Bauhus J, Beinhoff C, Benavides R, Benneter A, Berger S, Berthold F, Boberg J, Bonal D, Brüggemann W, Carnol M, Castagnéyrol B, Charbonnier Y, Čečko E, Coomes D, Coppi A, Crespo BC, Dalmaris E, Dănilă G, Dawud SM., de Vries W, De Wandeler H, Deconchat M, Domisch T, Duduman G, Fischer M, **Fotelli M**, Gessler A, Gimeno T, Granier A, Grossiord C, Guyot V, Hantsch L, Hättenschwiler S, Hector A, Hermy M, Holland V, Jactel H, Joly F-X, Jucker T, Kolb S, Koricheva J, Lexer MJ., Liebergesell M, Milligan H, Müller S, Muys B, Nguyen D, Nichiforel L, Pollastrini M, Proulx R, Rabasa S, Radoglou K, Ratcliffe S, Raulund-Rasmussen K, Seiferling I, Stenlid J, Vesterdal L, von Wilpert K, Zavala MA., Zielinski D, Scherer-Lorenzen M. **2013**. A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. *Perspectives in Plant Ecology, Evolution and Systematics*, 15: 281-291. <https://doi.org/10.1016/j.ppees.2013.07.002>
 19. Ampoorter E, Coppi A, Selvi F, Auge H, Baeten L, **Fotelli M**, Radoglou K, Verheyen K. **2016**. Driving Mechanisms of Overstorey-understorey Diversity Relationships in European Forests. *Perspectives in Plant Ecology Evolution and Systematics* 19: 21–29. <https://doi.org/10.1016/j.ppees.2016.02.001>
 20. Pollastrini M, Feducci M, Bonal D, **Fotelli M**, Gessler A, Gossiord C, Guyot V, Jactel H, Nguyen D, Radoglou K, Bussotti F. **2016**. Physiological significance of forest tree defoliation: results from a survey in a mixed forest in Tuscany (central Italy). *Forest Ecology and Management*, 361: 170-178. <https://doi.org/10.1016/j.foreco.2015.11.018>
 21. Pollastrini M, Garcia Nogales A, Benavides R, Bonal D, Finer L, **Fotelli M**, Gessler A, Grossiord C, Radoglou K, Strasser RJ, Bussotti F. **2017**. Tree Diversity affects chlorophyll a fluorescence and other leaf traits of tree species in a boreal forest. *Tree Physiology* 37(2): 199-208. <https://doi.org/10.1093/treephys/tpw132>
 22. Ratcliffe S, Wirth C, Jucker T, van der Plas F, Scherer-Lorenzen M, Verheyen K, Allan E, Benavides R, Bruelheide H, Ohse B, Paquette A, Ampoorter E, Bastias CC, Bauhus J, Bonal D, Bouriaud O, Bussotti F, Carnol M, Castagnéyrol B, Čečko E, Muhie Dawud S, De Wandeler H, Domisch T, Finér L, Fischer M, **Fotelli M**, Gessler A, Granier A, Grossiord C, Guyot V, Haase J, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Kambach S, Kolb S, Koricheva J, Liebergesell M, Milligan H, Müller S, Muys B, Nguyen D, Nock C, Pollastrini M, Purschke O, Radoglou K, Raulund-Rasmussen K, Roger F, Ruiz-Benito P, Seidl R, Selvi F, Seiferling I, Stenlid J, Valladares F, Vesterdal L, Baeten L. **2017**. Biodiversity and ecosystem functioning relations in European forests depend on environmental context, *Ecology Letters* 20: 1414–1426. <https://doi.org/10.1111/ele.12849>
 23. Van der Plas F, Ratcliffe S, Ruiz-Benito P, Scherer-Lorenzen M, Verheyen K, Wirth C, Zavala MA., Ampoorter E, Baeten L, Barbaro L, Bastias CC, Bauhus J, Benavides R, Benneter A, Berthold F, Bonal D, Bouriaud O, Bruelheide H, Bussotti F, Carnol M, Castagnéyrol B, Charbonnier Y, Čečko E, Coomes D, Coppi A, Dawud MS, De Smedt P, De Wandeler H, Domisch T, Finér L, **Fotelli M**, Gessler A, Granier A, Grossiord C, Guyot V, Haase J, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Jucker T, Kambach S, Kattge J, Koricheva J, Kunstler G, Liebergesell M, Manning P, Milligan H, Müller S, Muys B, Nguyen D, Nock C, Paquette A, Pollastrini M, Radoglou K, Raulund-Rasmussen K, Roger F, Seidl R, Selvi F, Stenlid J, Valladares F, van Keer J, Vesterdal F, Weigelt A, Zielinski D, Fischer M, Gamfeldt L, Allan E. **2017**. Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. *Ecology Letters* 21: 31-42. <https://doi.org/10.1111/ele.12868>
 24. Baeten L, Bruelheide H, van der Plas F, Kambach S, Ratcliffe S, Jucker T, Allan E, Ampoorter E, Barbaro L, Bastias CC., Bauhus J, Benavides R, Bonal D, Bouriaud O, Bussotti F, Carnol M, Castagnéyrol B, Charbonnier Y, Čečko E, Dawud SM, De Wandeler H, Domisch T, Finér L, Fischer M, **Fotelli M**, Gessler A, Granier A, Grossiord C, Guyot V, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Kändler G, Koricheva J, Lehtonen A, Milligan H, Müller S, Muys B, Nguyen D, Pollastrini M, Radoglou K, Raulund-Rasmussen K, Ruiz-Benito P, Selvi F, Stenlid J, Valladares

- F, Vesterdal L, Verheyen K, Wirth C, Zavala MA., Scherer-Lorenzen M. **2018**. Identifying the tree species compositions that maximize ecosystem functioning in European forests. *Journal of Applied Ecology*, <https://doi.org/10.1111/1365-2664.13308>
25. **Fotelli MN**, Korakaki E, Paparrizos SA, Radoglou K, Awada T, Matzarakis A. **2019**. Environmental controls on the seasonal variation in gas exchange and water balance in a near-coastal mediterranean *Pinus halepensis* forest. *Forests*, 10(4), 313; <https://doi.org/10.3390/f10040313>
 26. Bantis F, Koukounaras A, Siomos A, **Fotelli MN**, Kintzonidis D. **2020**. Bichromatic red and blue LEDs during healing enhance the vegetative growth and quality of grafted watermelon seedlings. *Scientia Horticulturae*, published online: <https://doi.org/10.1016/j.scienta.2019.109000>
 27. **Fotelli MN***, Lyrou FG, Avtzis DN, Maurer D, Rennenberg H, Spyroglou G, Polle A, Radoglou. 2020. Effective defense of Aleppo pine against the giant scale *Marchalina hellenica* through ecophysiological and metabolic changes. *Frontiers in Plant Science* 11: 581693. <https://doi.org/10.3389/fpls.2020.581693>
 28. Bantis F, **Fotelli M**, Ilić ZA, Koukounaras A. 2020. Physiological and phytochemical responses of spinach baby leaves grown in a PFAL system with LEDs and saline nutrient solution. *Agriculture* 10(11), 574; <https://doi.org/10.3390/agriculture10110574>
 29. Korakaki E, **Fotelli MN***. 2020. Sap flow in Aleppo pine in Greece in relation to sapwood radial gradient, temporal and climatic variability. *Forests* 2021, 12, 2. <https://doi.org/10.3390/f12010002>
 30. Spyroglou G, Fotelli MN, Nanos N, Radoglou K. 2021. Assessing biomass accumulation in Black locust restoration plantation. *Forests*, 12, 1477. <https://doi.org/10.3390/f12111477>
 31. **Fotelli MN***. 2021. Impacts of Climate Change on Tree Physiology and Responses of Forest Ecosystems. *Forests*, 12, 1728. (Editorial) <https://doi.org/10.3390/f12121728>
 32. Holland V, Reininger N, Bantis F, Brüggemann W, Radoglou K, **Fotelli MN***. 2022. Diurnal photosynthetic performance of two oak species from two provenances in a Mediterranean and a central European common garden. *Photosynthetica*: online first, <https://doi.org/10.32615/ps.2022.023>
 33. Tziaferidis SR, Spyroglou G, **Fotelli M***, Radoglou K. 2022. Allometric models for the estimation of foliage area and biomass from stem metrics in black locust. *iForest - Biogeosciences and Forestry* 15: 281-288. doi: <https://doi.org/10.3832/ifer3939-015>
 34. Bussotti F, Brüggemann W, **Fotelli M**, Pollastrini M. 2022. Downregulation of PSI regulates photosynthesis in early successional tree species. Evidence from a field survey across European forests. *Journal of Photochemistry and Photobiology*, 12: 100145. doi: <https://doi.org/10.1016/j.jpap.2022.100145>
 35. Markos N, Radoglou K, **Fotelli M***. 2023. Environmental drivers of gross primary production and evapotranspiration at a *Robinia pseudoacacia* L. restoration plantation. *Forests*, 14(5), 916; <https://doi.org/10.3390/f14050916>.
 36. Xanthopoulos G, Radoglou K, Derrien D, Spyroglou G, Angeli N, Tsioni G, **Fotelli M***. 2023. Carbon sequestration and soil nitrogen enrichment in *Robinia pseudoacacia* L. post-mining restoration plantations. *Frontiers in Forests and Global Change*, Volume 6, 1190026, <https://doi.org/10.3389/ffgc.2023.1190026>
 37. Scherer-Lorenzen M, Allan E, Ampoorter E, Avacaritiei D, Baeten L, Barneaia I, Bastias C, Bauhus J, Benavides R, Benneter A, Berger S, Bonal D, Bouriaud O, Bruelheide H, Bussotti F, Carnol M, Castagneyrol B, Čečko E, Coomes D, Coppi A, Cosofret C, Danila I, Dawud S, De Wandeler H, Domisch T, Duduman G, Finér L, Fischer M, **Fotelli M**, Gessler A, Gimeno TE, Grossiord C, Guyot V, Hattenschwiller S, Jactel H, Jaroszewicz B, Joly FX, Jucker T, Koricheva J, López-Quiroga D, Milligan H, Mueller S, Muys B, Nguyen D, Pollastrini M, Rabasa SG, Radoglou K, Ratcliffe S, Raulund-Rasmussen K, Ruiz-Benito P, Seidl R, Seiferling I, Selvi F, Smerczyński I, Stenlid J, Valladares F, van der Plas F, Verheyen K, Vesterdal L, von Wilpert K, Wirth C, Zavala M. 2023. The functional significance of tree species diversity in European forests - the FunDivEUROPE dataset [Dataset]. *Dryad*. <https://doi.org/10.5061/dryad.9ghx3ffpz>

38. Khaffalah F, Bon L, Bakker M, Fanin N, Bellanger R, Bernier F, De Schrijver A, Ducatillon C, **Fotelli M**, Gateble G, Gundale M, Larsson M, Legout A, Mason B, Nordin A, Smolander A, Spyroglou G, Vanguelova E, Verheyen K, Vesterdal L, Zeller B, Augusto L, Derrien D, Buée M. 2024. "Ectomycorrhizal exploration type" could be an adaptive trait explaining the spatial distribution of tree symbiotic fungi as a function of forest humus forms and soil fertility. Mycorrhiza, <https://doi.org/10.1007/s00572-024-01146-8>
39. Proutsos N, **Fotelli M**, Stefanidis P, Tigkas D. 2024. Assessing the accuracy of 50 temperature-based models for estimating Potential Evapotranspiration (PET) in Mediterranean Mountainous Forest Environment. Atmosphere, 15, 662. <https://doi.org/10.3390/atmos15060662>.
40. Wilms F, Berendt F, Bronisz K, Bashutska U, **Fotelli M**, Radoglou K, Spyroglou G. 2024. Applying taper function models for black locust plantations in Greek post-mining areas. Scientific Reports, <https://doi.org/10.1038/s41598-024-63048-1>.
41. Augusto L, Borelle R, Boča A, Bon L, Orazio C, Arias-González A, Bakker M.R. , Gartzia-Bengoetxea N, Auge H, Bernier F, Cantero A, Cavender-Bares J, Correia A.H., De Schrijver A, Diez-Casero J.J, Eisenhauer N, **Fotelli M.N.**, Gâteblé G, Godbold D.L., Gomes-Caetano-Ferreira M, Gundale M.J, Jactel H, Koricheva J, Larsson M, Laudicina V.A, Legout A, Martín-García J, Mason W.L, Meredieu C., Mereu S., Montgomery R.A, Musch B, Muys B., Paillassa E., Paquette A., Parker J.D., Parker W.C., Ponette Q, Reynolds C, Rozados-Lorenzo M.J, Ruiz-Peinado R, Santesteban-Insausti X, Scherer-Lorenzen M, Silva-Pando F.J, Smolander A, Spyroglou G, Teixeira-Barcelos E.B, Vanguelova E.I, Verheyen K, Vesterdal L, Charru M. 2025. Generalised slow growth of fast-growing tree species. Nature. <https://doi.org/10.1038/s41586-025-08692-x>
42. Sachanidis X, **Fotelli MN***, Markos N, Fyllas N, Radoglou K. 2025. Drivers of PM10 retention by black locust post-mining restoration plantations. Atmosphere, 16(5), 555; <https://doi.org/10.3390/atmos16050555>
43. Guerrieri R, Vanguelova E, Munzi S, **Fotelli M**, Branquinho C, Ferretti M, Migliavacca M, Salmon Y, Ullah S, Alonso R, Đurković J, Fyllas N, Machacova K, Ostonen I, Sarris D, Verstraeten A. 2025. Towards a new era in forest monitoring to meet scientific, political and societal needs. Plants, People, Planet, 1–15. <https://doi.org/10.1002/ppp3.70002>
44. Munzi S, **Fotelli MN**, Lewis CR, Gharun M, Alonso R and Machacova K. 2025 Hi Forest, How are you Doing? Front. Young Minds. 13:1557571. <https://10.3389/frym.2025.1557571>
45. Zacharoudi S, Fendrich A, Cescatti A, Spyroglou G, **Fotelli M**, Radoglou K, Panagos P. 2025. Modeling soil respiration in deciduous oak and broadleaf evergreen ecosystems in Greece. European Journal of Soil Science, 76, no. 6: e70254. <https://doi.org/10.1111/ejss.70254>
46. Eleftheriadou N, Mantzari ED, Kiorapostolou N, Sazeides C, Xanthopoulos G, Markos N, Spyroglou G, Bintsi-Frantzi E, Gouvas A, Dimitrakopoulos PG, **Fotelli MN**, Radoglou K, Fyllas MN. 2026. An Integrated Monitoring Protocol to Study the Effects of Management on the C Sequestration Potential of Mediterranean Pine Ecosystems. Methods and Protocols. 2026; 9(1):18. <https://doi.org/10.3390/mps9010018>
47. Kiorapostolou, N. Eleftheriadou, N., Sazeides, C., Markos, N., Gouvas, A., Bintsi-Frantzi, E., Mantzari, E., Xanthopoulos, G., Dimitrakopoulos, P.G., Fyllas, N, Spyroglou, G., Radoglou, K., Guerrieri, R., **Fotelli, M.N.** 2025. Shaping gas exchange under drought: Seasonal and interspecific variation in photosynthetic traits of *Pinus halepensis* and *Pinus brutia* in Mediterranean forests. Forest, Ecology and Management: accepted. Available at <http://dx.doi.org/10.2139/ssrn.5770462>
48. Mantzari E, Eleftheriadou N, Xanthopoulos G, Gouvas A, Sazeides CI, Kiorapostolou N, Bintzi-Frantzi E, Markos N, Spyroglou S, Vanguelova E, Radoglou K, **Fotelli MN**, Fyllas NM, Dimitrakopoulos PG. 2026. Early stage litterfall decomposition dynamics in *Pinus halepensis* and *Pinus brutia* stands: Disentangling the effect of climate, species identity and management practices. Plant and Soil, under review. Preprint available at: <https://doi.org/10.21203/rs.3.rs-8310680/v1>
49. Puchi PF, Lévesque M, Landivar CM, Lewis C, Creek D, Popa A, Klisz M, Černý J, Fyllas NM, Ziemblinska K, Koren G, Dalmonech D, **Fotelli MN**, Markos M, Pugh TAM, Salmon Y, Guerrieri R.

2026. What are the trends in growth, water-use efficiency and mortality in European forests? Environmental Evidence, submitted.

CITATION INDEXES

Citations: >2600 (Google Scholar), > 2400 (ResearchGate) >1800 (Scopus)

h – index: 25 (Google Scholar, ResearchGate), 22 (Scopus)

ANNOUNCEMENTS IN INTERNATIONAL MEETINGS

1. **Awada T, Radoglou K, Fotelli MN, Constantinidou E-IA. 2001.** Seasonal dynamics of photosynthesis under contrasting light regimes for three Mediterranean pine species. In: *Proceedings of the 86th annual meeting of the Ecological Society of America (ESA)*. Madison - Wisconsin, USA. pp. 250-251(Poster).
2. **Fotelli MN, Geßler A, Peuke AD, Rennenberg H. 2001.** Drought modulates the interference of an early successional species (*Rubus frutisocus*) with beech seedlings: Effects on water- and N-status. In: *Proceedings of the International Conference "Forest Research: A challenge for an Integrated European Approach"* (Radoglou ed.), Thessaloniki, Greece, Vol. II. pp. 529-536 (Poster). ISBN: 960-86947-4-4.
3. **Awada T, Radoglou K, Fotelli MN, Constantinidou E-IA. 2001.** Seasonal dynamics of photosynthesis under contrasting light regimes for three Mediterranean pine species. In: *Proceedings of the International Conference "Forest Research: A challenge for an Integrated European Approach"* (Radoglou ed.), Thessaloniki, Greece, Vol. II. pp. 537-542 (Poster). ISBN: 960-86947-4-4.
4. **Fotelli MN, Nahm M, Heidenfelder A, Papen H, Rennenberg H, Geßler A. 2002.** Soluble non-protein nitrogen compounds indicate changes in the nitrogen status of beech seedlings due to climate and thinning. In: *Abstracts of the International Conference "13th Congress of the Federation of European Societies of Plant Physiology"* (Roubelakis-Angelakis ed.), Heraklion-Crete, pp. 390. (Poster).
5. **Fotelli MN, Rennenberg H, Geßler A. 2002.** Effects of climate and thinning on the water status of European beech natural regeneration. In: *Abstracts of the International Conference "Botanikertagung 2002"* (Deutsche Botanische Gesellschaft Ed.), Freiburg, Germany, pp. 235. (Poster).
6. **Geßler A, Kopriva S, Fotelli MN, Collier M, Rennenberg H. 2002.** Regulation of nitrogen uptake by *Fagus sylvatica* on a whole plant level. In: *Abstracts of the International Conference "Botanikertagung 2002"* (Deutsche Botanische Gesellschaft Ed.), Freiburg, Germany, pp. 260. (Poster).
7. **Rennenberg H, Fotelli MN, Keitel C, Nahm M, Geßler A. 2003.** Effects of water shortage on primary metabolism in Central European beech forests. In: *Abstracts of the European Union – High Level Scientific Conference "Photosynthesis in a changing world (Photochange)"*, Kolymbari - Crete, Greece, pp. 26. (presentation).
8. **Radoglou K, Fotelli MN. 2004.** Physiological indicators predicting the vitality of root system in woody planting stock. In: *Abstracts of the International Conference "Cost E38: First open Workshop on Woody Root Processes under a Changing Environment"* (Radoglou Ed.), Thessaloniki, Greece, pp. 13. (presentation).
9. **Liakoura V, Fotelli MN, Liakopoulos G, Rennenberg H, Karabourniotis G. 2005.** Reconsidering leaf structure vs. physiological traits relationships: a comparison between species with heterobaric or homobaric leaves, growing in Mediterranean environment. In: *XVII International Botanical Congress*. Vienna, Austria, pp. 537. (Poster).
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 23. **Sachanidis Ch.G., Fotelli M.N., Markos N., Fyllas N.M. and Radoglou K. 2021.** The positive effect of black locust plantations in the mitigation of atmospheric pollution. Proceedings of the Eighth

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 27. **Spyroglou G., Fotelli M., Radoglou K., Tziaferidis S.R., Xanthopoulos G., Tyraidis K., Manolopoulos D. 2022.** Estimation of above and below ground biomass distribution using allometric equations in restored open cast coal mines. Final event of COFORMIT Project "Carbon sequestration from tree plantations of nature restoration projects". 17-18 February 2022, online conference. (presentation).
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 29. **Sachanidis Ch.G., Fotelli M.N., Markos N., Fyllas N.M. and Radoglou K. 2022.** Factors affecting PM10 retention by black locust restoration plantations. Book of Abstracts of the 1st Meeting of COST Action CA20132 - Urban Tree Guard - Safeguarding European Urban Trees and Forests Through Improved Biosecurity (UB3 Guard), Denizli, Turkey, 10-12 May 2022, pp. 35. (Poster).
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 32. **Sachanidis Ch.G., Fotelli M.N., Markos N., Fyllas N.M. and Radoglou K. 2022.** Proceedings of the Ninth International Conference on Environmental Management, Engineering, Planning & Economics. Mykonos, Greece, June 9-11, 2022, pp. 121 (Poster).
 33. **Markos N., Radoglou K., Fotelli M.N. 2022.** The LTER monitoring site in Sani, Chalkidiki: Energy fluxes and gross primary productivity of an Aleppo pine ecosystem. PRE (Protection and Restoration of the Environment) - XVI conference, Kalamata, Greece, 5-8 July 2022. pp. 55 (Presentation).
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38. **Fotelli M, Fimetakis E, Efrose R, Skliros D, Radoglou. 2024.** Carbon sequestration in a natural coastal Aleppo pine forest. 1st OPEN-AIR CITIES International Conference "LOCAL AND REGIONAL SUSTAINABLE DEVELOPMENT AND URBAN RECONSTRUCTION". Athens, Greece, February 16-18, 2024. pp 113. (Presentation).
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41. **Sachanidis Ch.G, Fotelli M.N., Fyllas N.M., Markos N., Radoglou K. 2024.** Drivers of PM10 Retention by Black Locust Plantations at Restored Lignite Mines. Eleventh International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2024) and SECOTOX Conference. 16-20 June 2024. pp. 170 (Παρουσίαση - Περίληψη).
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54. **Zoanos E, Efrose R, Efstathopoulos P, Tsiknia M, Tsikou D, Fotelli M, Xystrakis F, Karmiris I, Damianidis C, Papatheodoulou A, Ehaliotis C, Flemetakis E. 2025.** Enhancing Legume Resilience to Abiotic Stress Using Native Rhizobia: In Planta Validation and Genomic Insights. Joint International Conference of The MicroBioKosmos Society & the Central and Eastern Europe Symposium on Microbial Ecology (CEESME). 22-24 September, Thessaloniki, Greece, pp. 124
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56. **Efstathopoulos P, Tsiknia M, Zoanos E, Efrose R, Tsikou D, Fotelli M, Xanthopoulos G, Damianidis C, Ehaliotis C, Flemetakis E. 2025.** Application of single and combined inocula of rhizobia and arbuscular mycorrhizal fungi strains, isolated from stressed environments, to improve legume performance and fitness under normal and osmotic stress conditions. Joint International Conference of The MicroBioKosmos Society & the Central and Eastern Europe Symposium on Microbial Ecology (CEESME). 22-24 September, Thessaloniki, Greece, pp. 014.

RESEARCH PROJECTS (10 MORE RECENT)

1. 2025 – 2029: **“FutureForests - Responses of European Forests to Global Change: Building synergies among flagship manipulation experiments through a network of next generation scientists”**, funded by HORIZON-MSCA-DN
2. 2025-2026: **“EnhanceForMed - Enhancing Forest Monitoring Infrastructure in the Mediterranean region for long-term climate-change impact assessment”**, funded by the European Forest Institute. Role: PI.
3. 2024-2029: **“ECOSERVICES II – An action plan for the protection and demonstration of Sani forest ecosystem services”**, funded by Sani Resort SA. Role: Coordinator.

4. **2024-2025: "PineOptim - Management of mediterranean pine forests for optimizing carbon and water balance under climate change"**, funded by the Hellenic Foundation for Research and Innovation and Next Generation EU. Role: PI
5. **2024-2025: "EICONA - Synergetic beneficial microbial consortia for improving plant productivity and adaptation in challenging environments"**, funded by the Hellenic Foundation for Research and Innovation and Innovation and Next Generation EU. Role: PI
6. **2022 - 2026: COST ACTION CA 21138 CLEANFOREST - Joint Effects of Climate Extremes and Atmospheric Deposition on European Forests.** funded by Horizon Europe. Role: Core Group and MC member, STSM Coordinator.
7. **2022 - 2024: "ForOaks – Dynamic monitoring and reporting of CO2 storage in oaks forests and shrublands, contribution to the improvement of National GHG reporting in LULUCF,** funded by the Hellenic Green Fund / Subcontractor to Democritus University of Thrace. Role: group member.
8. **2022 – 2024: "ECOCARBON – Assessment of the carbon budget of Sani forest ecosystem"** funded by Sani Resorts S.A. Role: Coordinator.
9. **2022 – 2024: "ECOSERVICES – Protection and enhancement of the ecosystem services of Sani forest ecosystem"** funded by Sani Resorts S.A. Role: Coordinator.
10. **2020 – 2024: French project "CARTON - CARbon functional Traits and their Optimisation"**, funded by ANR (Agence Nationale de la Recherche). Role: Site Manager.

EDITORIAL BOARD / PROJECT'S EVALUATION

1. **Member of the Reviewer Board** of Tree Physiology, Oxford Academic. (https://academic.oup.com/treephys/pages/review_board)
2. **Review Editor** of *Frontiers in Forests and Global Change* (Section: Temperate and Boreal Forests). (<https://loop.frontiersin.org/people/902426/overview>)
3. **Review Editor** of *Frontiers in Plant Science* (Section: Functional Plant Ecology). (<https://loop.frontiersin.org/people/902426/overview>)
4. **Member of the Editorial Board** of Forests, MDPI (<https://www.mdpi.com/journal/forests/editors>)
5. **Guest Editor** (*Special Issue*) "Impacts of Climate Change on Tree Physiology and Responses of Forest Ecosystems" (https://www.mdpi.com/journal/forests/special_issues/Tree_Physiology).
6. **Reviewer of 20 peer-review Scientific Journals**
7. **Projects' evaluator of:**
 - CINECA (<https://referee-evaluations.cineca.it/>):
 - Foundation for Food & Agriculture Research, USA (<https://foundationfar.org/>):
 - HORIZON Expert Evaluator

TEACHING ACTIVITY

- Supervisor of seven (7) completed MSc theses and one (1) ongoing MSc theses
- Supervisor of four (4) ongoing PhD-theses
- Teaching of the MSc courses: (a) Climate change: Methods of climate analyses, impacts and responses of natural ecosystems, (b) Soil restoration and vegetation rehabilitation in degraded areas, (c) Inventory and monitoring of forests, forest lands and protected areas, in collaboration with Democritus University of Thrace, Greece.
- Teaching of "Plant Physiology" at undergraduate students (Aristotle University of Thessaloniki / Department of Forestry and Natural Environment, University of Thessaly / Department of Agriculture Crop Production and Rural Environment

RECENT AWARDS

- **2024: #Her_Research - Leading Innovation of the year** for the proposal "Carbon storage from terrestrial ecosystems: Certification and application". Our proposal was among the 8

awarded from the >130 submitted proposals and the award was given by the Greek Federation of Women Enterprises.