

Γκανάτσας Πέτρος

Ο Δρ. Πέτρος Γκανάτσας είναι Καθηγητής Δασικής Οικολογίας και Δασοκομίας στο Εργαστήριο Δασοκομίας, του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης. Διδάσκει επί 25ετία, αρκετά προπτυχιακά και μεταπτυχιακά μαθήματα όπως: Δασική Οικολογία, Δασοκομία, Αναδάσώσεις, Δασικά Φυτώρια, Οικολογία, Κλιματική Αλλαγή και Δασικά Οικοσυστήματα, Διατήρηση της Βιοποικιλότητας, Μεταπυρική Αναγέννηση Δασικών Οικοσυστημάτων, Αποκατάσταση μετά από πυρκαγιά, Φαινόμενα οικολογικής διαδοχής, Αποκατάσταση υποβαθμισμένων οικοσυστημάτων, Δασοκομία Μεσογειακών Δασών.

Τα ερευνητικά του ενδιαφέροντα αφορούν την Οικολογία και την αναγέννηση των δασικών οικοσυστημάτων, τις δασοκομικές επεμβάσεις, τις τεχνικές αναδάσωσης, την πυροπροστασία, την μεταπυρική αποκατάσταση των καμένων δασικών οικοσυστημάτων, τη διατήρηση της βιοποικιλότητας των δασών, την κλιματική αλλαγή και τα δασικά οικοσυστήματα, το αττικό πράσινο και τη δασοκομία πόλεων Έχει συμμετάσχει στην υλοποίηση πολλών ερευνητικών (εθνικών και διεθνών) προγραμμάτων, σχετικά με τα παραπάνω ερευνητικά αντικείμενα.

Διακρίσεις σε διεθνές επίπεδο

Guest Editor of Special Issues in the following peer reviewed Journals.

- 1) Journal Forests (MDPI), Special Issue on "Global Change, Forest Declines and Ecological Restoration".
- 2) Journal Forests (MDPI), Special Issue on "Advanced Approaches for Postfire Restoration of Forest Ecosystems",
- 3) Journal Sustainability (MDPI), Special Issue on "Forest Biodiversity, Conservation and Sustainability - Series I".
- 4) Journal Sustainability (MDPI), Special Issue on "Forest Biodiversity, Conservation and Sustainability - Series II".
- 5) Journal Advances in Environmental and Engineering Research on "Forest Function to Carbon Cycle under Climate Change Conditions".

Ενδεικτικές δημοσιεύσεις

1. **Ganatsas, P.**, Tsakalidimi, M., Karydopoulos, T., Papaemannuil, A., & Papadopoulos, S. (2024). Long-term effect of different forest thinning intensity on carbon sequestration rates and potential uses in climate change mitigation actions. *Mitigation and Adaptation Strategies for Global Change*, 29(1),3.
2. Tsakalidimi, M., & **Ganatsas, P.** (2024). Forest land management and the role of ecological silviculture on the sustainability of Greek forests. *Journal of Degraded and Mining Lands Management*, 11(2), 5307-5317.
3. Tzamtzis, I., **Ganatsas, P.**, Kokkoris, I. P., Samaritakis, V., Botsis, D., Tsakalidimi, M., ... & Georgiadis, N. M. (2023). A Sustainable Strategy for Reforestation and Restoration of Burnt Natural Areas in Mediterranean Regions: A Case Study from Greece. *Sustainability*, 15(22), 15986.
4. Tsakalidimi, M., **Ganatsas, P.**, Oikonomakis, N., Kouloukouras, E., & Partozis, T. (2023). Vegetation Analysis and Silvicultural Suggestions for Mitigating Fire Danger and Protecting Nature the Case of a Natura 2000 Site

- in Southern Greece. *Revista de Gestão Social e Ambiental*, 17(9), e03515-e03515.
5. Tsakaldimi, M., Petaloudi L-M, & **Ganatsas, P.** (2023). A research note on developing a novel method for the estimation of annual volume increment in standing trees Ein Vorschlag für eine neue Methode zur Schätzung von Jahresvolumenzuwachs an stehenden Bäumen. *INHALT DIESES HEFTES*, 241.
 6. Mela, P., & **Ganatsas, P.** (2023). Effect of land preparation methods on restoration success of degraded oak forest ecosystems. *Dendrobiology*, 89.
 7. **Ganatsas P.**, Tsakaldimi M., Petaloudi L-M, 2023. Factors affecting the long-term soil organic carbon storage in Greek forests. *Forests* 2023, 14, x, <https://doi.org/10.3390/xxxx>
 8. **Ganatsas, P.**, Petaloudi, L., Tsakaldimi, M., 2023. A new non-destructive method for the estimation of annual height increment in standing trees. *MethodsX*, 10, p.102131.
 9. **Ganatsas P**, Oikonomakis N, Tsakaldimi M. 2022. Small-Scale Analysis of Characteristics of the Wildland–Urban Interface Area of Thessaloniki, Northern Greece. *Fire*. 2022; 5(5):159. <https://doi.org/10.3390/fire5050159>.
 10. **Ganatsas P**, Tsakaldimi M, Karydopoulos T, Petaloudi L-M, Papaemmanouil A, Papadopoulos S, Gerochristou S. Carbon Pools in a 77 Year-Old Oak Forest under Conversion from Coppice to High Forest. *Sustainability*. 2022; 14(21):13764. <https://doi.org/10.3390/su142113764>
 11. **Ganatsas, P.**; Giannakaki, M.; Gouvas, A.; Tsakaldimi, M. Is the Reproduction Capacity of *Pinus brutia* Stands 20 Years after Wildfire Efficient to Secure Forest Restoration in the Case of a Fire Re-Occurrence? *Forests* 2021, 12, 991. <https://doi.org/10.3390/f12080991>.
 12. Ioannidis, K.; Tsakaldimi, M.; Koutsovoulou, K.; Daskalakou, E.N.; **Ganatsas, P.** Effect of Seedling Provenance and Site Heterogeneity on *Abies cephalonica* Performance in a Post-Fire Environment. *Sustainability* 2021, 13, 6097. <https://doi.org/10.3390/su13116097>
 13. Tsakaldimi, M.; Giannaki, P.; Ivetić, V.; Kapsali, N.; **Ganatsas, P.** Fertilization and Shading Trials to Promote *Pinus nigra* Seedlings' Nursery Growth under the Climate Change Demands. *Sustainability* 2021, 13, 3563. <https://doi.org/10.3390/su13063563>
 14. **Ganatsas P.**, Daskalakou E., Paitaridou D., 2012. First results on early post-fire succession in an *Abies cephalonica* forest (Parnitha National Park, Greece). *iFOREST* 5: 6-13.
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 16. G. Goudelis, P. Ganatsas, T. Tsitsoni, Y. Spanos, E. Daskalakou. 2008. Effect of two successive wildfires in *Pinus halepensis* Mill. stands in Central Greece. *Web Ecology* 8: 30-34.
 17. Ganatsas P., Daskalakou E., Paitaridou D., Menteli B., Prassas G., 2009. Investigation of restoration options of the burnt fir forest in National Park of Parnis. In: Proceedings of the 14th Hellenic Forestry Conference, Patra Oct, 1-4 2009, pp. 71-84.
 18. Tsakaldimi M., Ganatsas P., Jacobs D.F., 2012. Prediction of planted seedling survival of five Mediterranean species based on initial seedling morphology. *New Forests* DOI 10.1007/s11056-012-9339-3.

19. Ganatsas P., 2007. Research on factors leading to the absence of natural regeneration of *Pinus pinea* L. in the Strofylia forest, western Peloponnisos, Greece. *Options Mediterraneennes, Series A*, No 75: 121-129.
20. Daskalidou E., Koutsovoulou K., Skouteri A., Ioannidis K., Gouma B., Paitaridou D., Ganatsas P., Thanos K. 2015. Contribution in postfire management of National Park of Parnis. In: Proceedings of the 17th Hellenic Forestry Conference, Kefalonia, Oct 4-7, 2015. pp. 590-599.
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24. Spanos I., Ganatsas P., Tsakalidimi M. 2010. Evaluation of postfire restoration in suburban forest of Thessaloniki, northern Greece. *Global NEST Journal* 12(4): 390-400.
25. Łukasz Walas, Petros Ganatsas, Grzegorz Iszkuło, Peter A. Thomas, Monika Dering, 2019. Spatial genetic structure and diversity of natural populations of *Aesculus hippocastanum* L. in Greece. *PLOS ONE*, 2019: 1-27.
26. Tzamtzis Iodanis, Ganatsas Petros, 2020. Land use, land-use change and their effect on greenhouse gas emissions and removals from Greek forests. *International Journal of Global Warming* 22(1):111-131.
27. Ganatsas Petros, Marianthi Tsakalidimi, Christos Damianidis, Anastasia Stefanaki, Theodoros Kalapothareas, Theodoros Karydopoulos and Kelly Papapavlou, 2019. Regeneration Ecology of the Rare Plant Species *Verbascum dingleri*: Implications for Species Conservation. *Sustainability* 2019, 11, 3305; doi:10.3390/su11123305.
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30. Oikonomakis N., Ganatsas P., 2012. Land cover changes and forest succession trends in a site of Natura 2000 network (Elatia forest), in northern Greece. *Forest Ecology and Management* 285: 153–163.
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34. Tsakaldimi M.N. and Ganatsas P.P., 2006. Effect of chemical root pruning on stem growth, root morphology and field performance of the Mediterranean pine *Pinus halepensis* Mill. *Scientia Horticulturae* 109: 183–189.

Επιστημονικός Υπεύθυνος ερευνητικών προγραμμάτων

1. Pan-European Network for Climate Adaptive Forest Restoration and Reforestation, COST Action: CA19128. Συμμετοχή στη Διαχειριστική Επιτροπή (Management Committee) του Ευρωπαϊκού Προγράμματος. 2020-2024.
2. Σχεδιασμός της μεταπτυχιακής αποκατάστασης των καμένων δασών, περιόδου 2022, Ερευνητικό πρόγραμμα του Εργαστηρίου Δασοκομίας του Τμήματος Δασολογίας & Φ. Περιβάλλοντος, Α.Π.Θ. 2023.
3. Σχεδιασμός της μεταπτυχιακής αποκατάστασης των καμένων δασών, περιόδου 2021, Ερευνητικό πρόγραμμα του Εργαστηρίου Δασοκομίας του Τμήματος Δασολογίας & Φ. Περιβάλλοντος, Α.Π.Θ. 2022.
4. Έρευνα της μακροχρόνιας επίδρασης του βαθμού αραίωσης σε συστάδες δρύος υπό το πρίσμα της κλιματικής αλλαγής, Ερευνητικό Πρόγραμμα του Εργαστηρίου Δασοκομίας του Τμήματος Δασολογίας και Φ. Π. ΑΠΘ. 2019-2022.
5. Επιστημονική υποστήριξη μελέτης ανόρθωσης πλατύφυλλων δασών από πρεμνοφυή σε σπερμοφυή, Ερευνητικό Πρόγραμμα του Εργαστηρίου Δασοκομίας του Τμήματος Δασολογίας και Φ. Π. ΑΠΘ. 2022.
6. Research on the long-term effect of thinning treatments on oak stands under climate change conditions. ELKE AUTH (2019-2020).
7. Conservation of the seeds of the rare plant species *Dianthus formanekii*, *Dianthus tenuiflorus* and *Verbascum dingleri*. TAP, 2016-2019.
8. Contribution on the postfire management of National Park of Parnis, central Greece. Hellenic Green Fund. 2013-2015.
9. Reclamation of Degraded Mediterranean Ecosystems (REDMED). Ευρωπαϊκή Ένωση, ENVIRONMENT RTD Programme, Contract No ENV4-CT97-0682 (1998-2000).
10. Restoration of degraded forest ecosystem in the Sithonia peninsula, northern Greece (Ministry of Agriculture, 1997-99).
11. Reclamation of Mediterranean ecosystems affected by wildfires (REMECOS). Ευρωπαϊκή Ένωση, ENVIRONMENT RTD Programme, Contract No EOK EVSV-CT94-0475 (1994-1996).
12. Subcontractor in the Integrated European Project *FIRE PARADOX*, 2006-2009.
13. Conservation, restoration and regeneration of *Pinus pinea* forest in the area of Strofylia, Peloponnesos, Actions D3 and C5 of the project Life2002/Nat/GR/8491, 2004-2006.
14. Pre-burning protection measures and reforestation of burned areas in Mediterranean type ecosystems and their degradation (STRIDE Hellas, 1991-1993).

Διεθνείς συνεργασίες

Collaboration with the following research institutes in the planning, submission and implementation of joint European programs (such as REMECOS, REDMED, REACTION) and national programs (e.g. THALIS), and publications in peer reviewed journals.

- Department of Forestry and Natural Resources, University of Purdue, USA,
- FAO, Viale delle Terme di Caracalla 00153 Rome, Italy,
- Institute for Dendrobiology, Polish Academy of Sciences, Kórnik, Poland.
- Faculty of Forestry, University of Belgrade
- University of Natural Resources and Applied Life Sciences – Wien – Austria, Department of Forest and Soil Sciences, Institute of Silviculture.
- Università della Toscana, Dipartimento di Scienze dell’Ambiente Forestale e delle sue Risorse (UNITUS), Italy.
- FUNDACION CEAM Fundación Centro de Estudios Ambientales del Mediterráneo (Mediterranean Centre for Environmental Studies).
- Universidad de Alicante (UA).
- Universitat de Barcelona, Faculty of Biology, Barcelona, Spain.
- Universidade de Lisboa (FCUL).
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- Universidad de Murcia (UM) (Departamento Biología Vegetal (Botánica), Facultad de Biología.
- Land Management Department (SAC), Craibstone Estate, Aberdeen AB21 9TQ UK.
- Centro Interdipartimentale di Ateneo NRD Nucleo Ricerca Desertificazione, Università di Sassari, Sardinia, Italy.
- ISCA, Instituto Superior de Agronomia, Lisboa. Portugal.
- IAMZ, Mediterranean Agronomic Institute of Zaragoza.
- Centre National de la Recherche Scientifique.
- WWF-France.
- University of Extremadura, Spain.
- Instituto Nacional de Investigação Agrária e das Pescas, Lisboa, Portugal.
- University of Maria Curie Skłodowska, Lublin, Poland.
- Asociación para el Desarrollo Integral de la Comarca Miajadas-Trujillo (ADICOMT), Miajadas, Spain.
- Consiglio Nazionale delle Ricerche, Istituto di Biometereologia (CNR-IBIMET), Italy.
- Entente for the Mediterranean forest - Testing and research Center, France, (Entente – CEREN).

Κριτής επιστημονικών περιοδικών (after invitation)

- PLOS One
- Forest Ecology and Management, Elsevier.
- Agricultural and Forest Meteorology, Elsevier.
- New Forests, Springer.
- Journal of Environmental management, Elsevier.
- Journal of Arid Environment, Elsevier.

- Forest Systems, published by INIA,
- Journal of Geography and and Regional Planning, published by Academic Journals
- Web Ecology, issued by the European Ecological Federation (EEF)
- Neurocomputing, Elsevier.
- Plants (MDPI).
- International Journal of Forest, Soil and Erosion.
- Forestry, OXFORD Academic.
- Dendrobiology, published by Institute of Dendrology, Polish Academy of Sciences.
- Restoration Ecology, Wiley Online Library.
- iForest, published by the Italian Society of Silviculture and Forest Ecology (SISEF).
- Remote Sensing (MDPI).
- Notulae Botanicae Horti Agrobotanici Cluj-Napoca.
- Forestry Ideas, issued by the University of Forestry in Sofia
- Journal of Soil Science and Environmental Management, Academic Journals
- International Journal of Ecology, published by Hindawi
- Alexandria Engineering Journal, Elsevier.
- Science of the Total Environment, Elsevier.
- Forests, publised by MDPI.
- Urban Science, publised by MDPI.
- Sustainability, publised by MDPI.
- Journal of Cleaner Production, Elsevier.
- Agronomy Journal, published by American Society of Agronomy.
- Environmental Processes, Springer.