

CURRICULUM VITAE

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EDUCATION

1992 Bachelor degree in Forestry, Department of Forestry and Natural Environment, Aristotle University of Thessaloniki.

2003 Ph.D. in Geobotany - Plant Sociology, Department of Forestry and Natural Environment Aristotle University of Thessaloniki.

SCIENTIFIC FIELD & RESEARCH INTERESTS

Scientific field: Forest Botany - Geobotany

Research interests and activity: Implementation of Forest Botany - Geobotany in plant species and communities' management and conservation. Inventory of flora and vegetation diversity. Monitoring and conservation of plant species and habitat types. Flora and vegetation of key species biotopes.

COURSES

Undergraduate

General Botany - Morphology

Forest Botany I & II

Systematic Botany

Plant Sociology

Geobotany

Ornamental trees & shrubs

Postgraduate

Ecosystem services

Biodiversity preservation and conservation

Biodiversity of Terrestrial Ecosystems

Principles of Forest, Scrubland and Protective Areas Census and Monitoring

INDICATIVE RESEARCH PROJECTS DURING THE LAST TEN YEARS

2021-2022. "Analysis of the apiculture flora of Thrace". Democritus University of Thrace.

2019-2021. Elaboration of Special Environmental Studies and Management Plans for the Natura 2000 Sites of the Region of Eastern Macedonia and Thrace. Contracting: Omikron SA.

2015-2016. Inventory and description of the aromatic and medical flora of Samothraki Island. Contracting: Region of An.Ma.Th.

2015. Monitoring and assessment of the conservation status of Habitats of Community Interest in Greece. Contracting: Auth, Oikom Environmental Consulting Ltd.

2015. Vegetation sampling in northeastern and central Greece for mapping habitat types inside sites of Natura 2000 network. Contracting: Auth, Oikom Environmental Consulting Ltd.

2013-2015. Thalys - University of Ioannina. Nature conservation through religion. The sacred forests of Ipirus. Contracting: University of Ioannina.

SELECTED PUBLICATIONS

Publications in Scientific Journals

1. Balaska K., G.C. Adamidis, G. Varsamis, K. Papalazarou, P. Karanikola, A. Manolis, A. Karapetsas, N.G. Eliades, R. Sandaltzopoulos, N. Papamatthaiakis, K. Poirazidis, **G. Korakis**, A.C. Papageorgiou 2021. Genetic diversity and spatial structure of the imperiled European population of *Malus trilobata* in Greece. *Genetika*, Vol 53, No.1,103 -119.
2. Tspidou, O.; Leinemann, L.; **Korakis, G.**; Finkeldey, R.; Gailing, O.; Papageorgiou, A.C. 2021. Fine-Scale Spatial Patterns of the Genetic Diversity of European Beech (*Fagus sylvatica* L.) around a Mountainous Glacial Refugium in the SW Balkans. *Forests*, 12, 725.
3. Pappas C.H., Xagoraris M., Kimbaris A., **Korakis G.** Tarantilis P.A., 2020. "Chemometric-infrared spectroscopic model for the taxonomy of medicinal herbs - the case of perennial *Sideritis* species". "Biomedical Journal of Scientific & Technical Research". Volume 32, 1, pp 24707-24712. DOI: 10.26717/BJSTR.2020.32.005199.
4. Chrysafis I., **Korakis G.**, Kyriazopoulos A. P, Mallinis G. 2020. Predicting Tree Species Diversity Using Geodiversity and Sentinel-2 Multi-Seasonal Spectral Information. *Sustainability* 2020, 12(21), 9250; <https://doi.org/10.3390/su12219250>.
5. Chrysafis I., **Korakis G.**, Kyriazopoulos A. P, Mallinis G. 2020. Retrieval of leaf area index using Sentinel-2 imagery in a mixed Mediterranean forest area *ISPRS Int. J. Geo-Inf.* 2020, 9(11), 622; doi.org/10.3390/ijgi9110622.
6. Mallinis G, Chrysafis I., **Korakis G.**, Pana E., Kyriazopoulos A. 2020. A Random Forest Modelling Procedure for a Multi- Sensor Assessment of Tree Species Diversity. *Remote Sens.* 2020, 12, 1210; [doi: 10.3390/rs12071210](https://doi.org/10.3390/rs12071210).
7. Avtzis D.N., Stara K., Sgardeli A., Betsis S., Diamandis S., Healey J.R., Kapsalis E., Kati V., **Korakis G.**, Marini Govigli V., Monokrousos N., Muggia L., Nitsiakos V., Papadatou E., Papaioannou H., Rohrer A., Tsiakiris R., Van Houtan K.S., Vokou D., Wong J.L.G., Halley J.M. 2018. Quantifying the conservation value of Sacred Natural Sites. *Biological Conservation* Vol. 222: 95-103.
8. Lempesi A., Eleftheriadou A., Delivasi Z., Psyllidou A., Korakis G., Kyriazopoulos A.P. 2017. Effects of Grazing Intensity on the Regeneration of Woody Species in an Oak Woodland. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca.* 45 (2): 597-601.
9. Manousidis, T., Kyriazopoulos, A.P., Parissi, Z.M., Abraham, E.M., **Korakis G.**, Abas Z. 2016. Grazing behavior, forage selection and diet composition of goats in a Mediterranean woody rangeland. *Small Ruminant Research.* Vol 145, 142-153.
10. Papageorgiou, AC., Kostoudi, C., Sorotos, I., Varsamis, G., **Korakis, G.**, Drouzas, A. 2015. Diversity in needle morphology and genetic markers in a marginal *Abies cephalonica* (Pinaceae) population. *Annals of Forest Research.* 58 (2): 217-234.

11. Hormova E., Kyriazopoulos A.P., Parissi Z.M., **Korakis G.**, Abraham E.M. 2014. Nutritive value of *Paliurus spina-christi* and herbaceous vegetation in Mediterranean shrublands of central and northern Greece. *Options Méditerranéennes, Series A, No. 109*: 163-166.
12. Abraham E.M., Parissi Z.M., Kyriazopoulos A.P., **Korakis G.**, Papaioannou P. 2014. Wildfire effects on species composition and nutritive value in different thermo-Mediterranean vegetation types. *Options Méditerranéennes, Series A, No. 109*: 479-482.
13. Lempesi A., Kyriazopoulos A.P., Orfanoudakis M., **Korakis G.** 2013. Soil properties and plant community changes along a goat grazing intensity gradient in an open canopy oak forest. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 41 (2): 567-575.
14. Kyriazopoulos A.P., Abraham E.M., Parissi Z.M., **Korakis G.**, Manousidis K. Chrisovelidou K. Papanaretou K. 2012. Effects of juniper encroachment on herbage production and biodiversity in a natural grassland: Preliminary results. *Options Méditerranéennes, Series A, No. 102*: 299-302.
15. Kyriazopoulos A.P., Abraham E.M., Parissi Z.M., **Korakis G.**, Abas Z. 2010. Floristic diversity of an open coppice oak forest as affected by grazing. *Options Méditerranéennes, Series A, No. 92*: 247-250.
16. Kati V., Poirazidis K., Dufrene M., Halley J., **Korakis G.**, Schindler S., Dimopoulos P. 2010. Towards the use of ecological heterogeneity to design reserve networks: a case study from Dadia National Park, Greece. *Biodiversity and Conservation* 19:1585–1597.
17. Gerasimidis A., **Korakis G.** 2009. Contribution to the study of the flora of Mount Mitsikeli, NW Greece. *Flora Mediterranea*. 19: 161-184.
18. Gerasimidis A., Panajiotidis S., Fotiadis G., **Korakis G.** 2009. Review of the Late Quaternary vegetation history of Epirus (NW Greece). *Phytologia Balcanica* 15(1): 29-37.
19. **Korakis G.**, Gerasimidis, A. 2006. Coastal and halophytic habitats and their flora in Evrotas Delta (SE Peloponnisos, Greece). *Journal of Biological Research*. Vol. 6: 155-166.
20. **Korakis G.**, Gerasimidis, A., Poirazidis, K., Kati, V. 2006. Floristic records from Dadia Lefkimi-Soufli National Park, NE Greece. *Flora Mediterranea*. 16: 11-32.
21. Kanellopoulos, N, Mertzanis, G., **Korakis G.**, Panagiotopoulou, M. 2006. Selective habitat use by brown bear (*Ursus arctos* L.) in northern Pindos, Greece. *Journal of Biological Research*. Vol. 5: 23-33.

Scientific Books and Book Chapters

1. **Korakis G.** 2019. *Forest Botany. Trees and shrubs native in Greece*. Thessaloniki. Athanasiou Altintzi Editions, pp. 520. ISBN 978-960-9465-36-6.
2. **Korakis G.** 2016. *Forest Botany. Indigenous Trees and Shrubs of Greece*. [e-book] Athens: Hellenic Academic Libraries Link. Pages 620. ISBN 978-960-603-282-0. Downloadable in: <http://hdl.handle.net/11419/742>. (In Greek)
3. **Korakis G.** 2012. Flora and vegetation of forests in Greece. Pp. 25-41. In: Papageorgiou A.C. Karetos G. and Katsadorakis G. (eds). *The forest. An integrated approach*. WWF Greece, Athens. ISBN 978-960-7506-28-3. (In Greek)
4. **Korakis G.**, Gerasimidis A., Kati V. 2010. The flora. In: Catsadorakis, G. and Källander, H. (eds). *The Dadia–Lefkimi–Soufli Forest National Park, Greece: Biodiversity, Management and Conservation*. WWF Greece, Athens, pp. 63-83. ISBN 978-960-7506-10-8.
5. **Korakis G.**, Gerasimidis A. 2010. Vegetation and habitat types. In: Catsadorakis, G. and Källander, H. (eds). *The Dadia–Lefkimi–Soufli Forest National Park, Greece: Biodiversity, Management and Conservation*. WWF Greece, Athens, pp. 85-93. ISBN 978-960-7506-10-8.
6. Mertzanis G., **Korakis G.**, Tsiokanos K., Aravidis I. 2009. Expansion of brown bear range in the course of rural abandonment during the 20th century - a case study from the Pindos Mountain

range. Pp 330-337 in: "Woodland Cultures in Time and Space - Tales from the past, messages for the future". (Saratsi E., Burgi Mat., Johann El., Kirby K., Moreno D., Watkins Ch.eds.); Embryo Publ. 2009, 400 pp. ISBN 978-960-8002-53-1

7. Chanlidou E., Karousou R., Minoglou D., **Korakis G.** 2001. Plants of Taygetos. Publication of the Region of Peloponnisos - Ecotopia. Pp. 345. (*In Greek*)

International Congresses Proceedings and Abstracts

1. Mallinis G., Chrysafis I., Lempesi A., Kyriazopoulos A., **Korakis G.**, Kokkoris I., Dimopoulos P. 2020. Spatiotemporal changes of forest line and canopy cover between 1945-2019 at selected Greek mountains. Proceedings SPIE 11524, Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020), 115240P doi: 10.1117/12.2570735
2. Chrysafis, I., Mallinis, G., **Korakis, G.**, Dragozi, E., 2019. Forest diversity estimation using Sentinel-2 and RapidEye imagery: a case study of the Northern Pindos National Park, in: Papadavid, G., Themistocleous, K., Michaelides, S., Ambrosia, V., Hadjimitsis, D.G. (Eds.), Seventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2019). SPIE, p. 50. doi:10.1117/12.2533661
3. Pappas C. S., Kimbaris A., Karachasani A., **Korakis G.**, Tarantilis P. A. 2017. Estimation of *Sideritis* species geographical origin using diffuse reflectance fourier transform infrared spectroscopy (drifts) and chemometrics. 3rd IMEKOFOODS. Metrology Promoting Harmonization & Standardization in Food & Nutrition 1st – 4th October 2017, KEDEA building, AUTH, Thessaloniki, Greece.
4. Ioannidou M., Balaska K., Papalazarou K., Papamatheakis N., Papanastasiou A., Poirazidis K., Kasimiadis D., **Korakis G.**, Chatzissavvidis C., Papageorgiou A.C. 2014. Conservation priorities for the vulnerable and rare woody plant *Eriolobus trilobatus*. In: Book of Abstracts of the International Conference "Enhancing Biodiversity in Mediterranean Ecosystems from Theory to Practice". Agricultural Research Center of North Greece, Themi (Thessaloniki), 18-21 June 2014, p. 51.
5. Pelekanaki A.A., Manolis A., Kostoudi C., **Korakis G.**, Papageorgiou A.C. 2014. Genetic diversity and differentiation of two populations of *Cupressus sempervirens* L. in Crete. In: Book of Abstracts of the International Conference "Enhancing Biodiversity in Mediterranean Ecosystems from Theory to Practice". Agricultural Research Center of North Greece, Themi (Thessaloniki), 18-21 June 2014.
6. Keisoglou I., Pasiou N., Kyriazopoulos A.P., Parissi Z.M., Abraham E.M., **Korakis G.**, Abas Z. 2013. Grazing effects on floristic diversity of a juniper-oak rangeland. Proceedings of 9th European Dry Grassland Meeting (EDGM) Prespa, Greece, 19-23 May 2012. Pp: 42-47.
7. Lempesi A., Hormova E., Orfanoudakis M., **Korakis G.**, Kyriazopoulos A.P. 2013. Soil properties along grazing gradients in an open canopy oak forest. Proceedings of 9th European Dry Grassland Meeting (EDGM) Prespa, Greece, 19-23 May 2012. Pp: 90-95.
8. **Korakis G.** Athanasiadis N. 2009. Ecology and classification of sub-Mediterranean vegetation on Paiko Mountain (NC Greece). In: Book of Abstracts of the 52nd International Symposium of the International Association for Vegetation Science "Vegetation Processes and Human Impact in a Changing World". Chania, Greece, May 30th – 4th June 2009, p. 192.
9. Kati V., Poirazidis K., Halley J., **Korakis G.**, Schindler S., Papaioannou H., Dimopoulos P. 2009. Ecological heterogeneity and biodiversity patterns as exemplified in the Dadia National Park (NE Greece). In: Book of Abstracts of the 52nd International Symposium of the International Association for Vegetation Science "Vegetation Processes and Human Impact in a Changing World". Chania, Greece, May 30th – 4th June 2009, p. 72.

10. Georgiadis L., Bousbouras D., Giannatos G., Krambokoukis L., Trivourea M., **Korakis G.**, Pilidis H., Karamanlidis A. 2009. Wildlife conservation of transboundary mountain areas in northwestern Greece. In: Book of Abstracts of the 2nd European Congress of Conservation Biology (ECCB) "Conservation biology and beyond: from science to practice". Prague, Czech Republic, 1st – 5th September 2009, p. 72.
11. Kati V., Poirazidis K., Dufrêne M., Halley J., **Korakis G.**, Schindler S., Dimopoulos P. 2009. Is ecological heterogeneity an alternative tool for reserve design? A case study from Dadia National Park, Greece In: Book of Abstracts of the 2nd European Congress of Conservation Biology (ECCB) "Conservation biology and beyond: from science to practice". Prague, Czech Republic, 1st – 5th September 2009, p. 82-83.
12. Aravidis, I., Giannakopoulos A., Iliopoulos Y., **Korakis Y.**, Machairas Y., Mertzanis Y., Nikolakaki, P., Selinidis K., Tsiokanos K., Zisopoulou Th. 2009. First Action Plan for transportation infrastructure and habitat fragmentation in Greece. In: Erratum, New Abstracts of the 2nd European Congress of Conservation Biology (ECCB) "Conservation biology and beyond: from science to practice". Prague, Czech Republic, 1st – 5th September 2009, p. 4.
13. **Korakis, G.**, Stara, K., Tsiakiris, R. 2007. Vegetation Attributes of Traditional Protected Woods in Zagori, NW Greece. In: Book of abstracts of the International Conference on Forest and Woodland History "Woodland Cultures in Time and Space: tales from the past, messages for the future". 3-7 September 2007, Thessaloniki, Greece, p. 56.
14. **Korakis, G.**, Poirazidis, K., Papamattheakis, N., Papageorgiou, A.C. 2006. New localities of the vulnerable species *Eriolobus trilobatus* (Rosaceae) in northeastern Greece. In: Ivanova D (ed), "Plant, fungal and habitats diversity investigation and conservation", Proceedings of the IV Balkan Botanical Congress. 20-26 June 2006, Institute of Botany, Sofia, Bulgaria. pp. 422-426.
15. **Korakis, G.** 2006. Description of vegetation types in Pylos Lagoon and Sfacteria Island, Greece. Proceedings of the International Conference "Sustainable Management and Development of Mountainous and Island Areas". 29th September – 1st October 2006, Island of Naxos, Greece. Vol. 2: 261-267.
16. Metzanis, G., **Korakis, G.**, Kallimanis, A., Sgardelis, S. Aravidis, I. 2006. Bear Habitat Suitability in Relation to Habitat Types of European Interest in NE Pindos Mountain Range, Greece. Proceedings of the International Conference "Sustainable Management and Development of Mountainous and Island Areas". 29th September – 1st October 2006, Island of Naxos, Greece. Vol. 1: 321-326.
17. Stara, K., **Korakis, G.**, Tsiakiris, R. Sacred Groves and Woods in Zagori, Epirus, Greece. 2004. In: Book of abstracts of the 13th International Workshop of the European Vegetation Survey. 15-20 April 2004, Ioannina, Greece, p. 65.