

# Curriculum vitae

**Prof. Dr Michail Vrachnakis**

(27 July 2018)



Name/Surname	<b>MICHAIL VRACHNAKIS</b>
Birthdate	17 October 1964
Birthplace	Chania (Kriti island), GREECE
Position	<b>Professor</b> (Dept. Forestry & Management of Natural Environment, Technological Educational Institute of Thessaly, Karditsa, GREECE)  <b>Vice-rector of Technological Educational Institute of Thessaly</b> (Academic Development and Student Affairs)  <b>Member of Executive Committee of Eurasian Dry Grassland Group</b> ( <a href="http://www.edgg.org">www.edgg.org</a> )
Workplace	<b>Dept. Forestry &amp; Management of Natural Environment</b> , TEI of Thessaly, Terma Mavromihali, GR-43100, Karditsa, GREECE  <b>Administration Centre of TEI of Thessaly</b> GR-41110, Larissa, GREECE
Communication	e-mail address: <a href="mailto:mvrahnak@teilar.gr">mvrahnak@teilar.gr</a> mobile phone: 0030 6946281442 work phone: 0030 2441064507 fax number: 0030 2441071753 URL: <a href="http://www.teilar.gr/person_en.php?pid=50">http://www.teilar.gr/person_en.php?pid=50</a>
Research interests	Rangeland ecology and management – Agroforestry - Biodiversity
Courses	Rangeland ecology (DAS 321), Rangeland management (DAS 624), Biodiversity and assessment of ecosystems (DAS 706), Agroforestry (DAS 435)

## Research projects (supervised by Michail Vrachnakis)

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1. *Inventory and Assessment of Riparian Forest and Pseudoalpine Rangeland and Forest Vegetation in the Prespa area of Greece and FYROM* – Society for the Protection of Prespa, TEI of Thessaly (code. 557, 2009 – 2010)
2. *Registration, Assessment and Geographical Representation of the Rangeland and Forest Habitat Types of the Natura 2000 Sites: «Ethnikos Drymos Prespon<sup>1</sup> (GR 1340001)» and «Ori Varnounta<sup>2</sup> (GR 1340003)»* – Society for the Protection of Prespa, TEI of Thessaly (code. 3770, 2010–2011)
3. *Inventory Record and Evaluation of Reedbed Floristic Diversity of Albanian Micro Prespa Lake – Transboundary Biosphere Reserve Prespa: Support to Prespa National Park in Albania – BMZ – Nr 2001 66 785* – Society for the Protection of Prespa, TEI of Thessaly (code: 3736, 2012)
4. *Research on Restoration of Priority Habitat Type \*9562 Juniperetum Excelsae through Re-introduction and Adjustment of Extensified Livestock Husbandry* – Project LIFE12 NAT/GR/000539 Restoration and Conservation of the Priority Habitat Type \*9562 – Society for the Protection of Prespa, TEI of Thessaly (code: 3823, 2013-2017)
5. *Recording, Monitoring and Evaluation of the Conservation Status of Habitats and Species of Community Interest, Section 1: Recording, Monitoring and Evaluation of the Conservation Status of Habitat Types and Flora of Community Interest* – OIKOM Ltd (code:3952, 2015-2016)
6. *Special Grazing Management Plan in Rangeland and Forest Habitat Types in the Area of Responsibility of Prespa National Forest Management Body* – TSITOURA PARASKEVI (code: 3955, 2015-2016)
7. *Nature for Youth and City* – ERASMUS+ KA205 (CAPACITYBUILDING) (code: 4801, 2016-2019)
8. *AGROTHES – Perspective of Agroforestry in Thessaly region: A research on social, environmental and economic aspects to enhance farmer participation* – Hellenic Foundation for Research and Innovation (code:....., 2018-2021)

## Research projects (involved as researcher)

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9. *Research on Management of Rangelands of Municipality of Metaxa, Prefecture of Kozani, Greece* – Aristotle University of Thessaloniki (cod. 4566, 1996)
10. *Range Development in the Endangered Sudan Savanna in Sokoto Nigeria State of Nigeria, Africa* – E.U. – STD NoT53\* – CT.91 – 0011 – Aristotle University of Thessaloniki (cod. 2894, 1996)
11. *A European Approach for Assessing Regrowth Potential of Woody Plants* – E.U. FAIR PL 95–497 – Forest Research Institute, Thessaloniki (1996–1997)
12. *Ecophysiological Aspects of Productivity of Grazed Grasslands of Low Elevation Zone in Several Stages of Succession* – Aristotle University of Thessaloniki (cod. 1774, 1997–1998)
13. *Agro-Meteorological Predictive Models of Herbage Production and Quality of Several Grazing Lands* – Sub-Programme 8, B Communal Support Framework 1994–1999 – Forest Research Institute, Thessaloniki (1997–1999)
14. *EQULFA – Husbandry Systems and Sustainable Social/Environmental Quality in Less Favoured Areas* – E.U. FAIR1, PL95 048 – Forest Research Institute, Thessaloniki (1998–1999)
15. *Determination of Effective Seed Mixtures of Rangeland Plants for Soil Protection in New Airport of Athens* – Aristotle University of Thessaloniki (cod. 9244, 1999)
16. *DRASME – Desertification Risk Assessment in Silvopastoral Mediterranean Ecosystems* – E.U. – IC18 – CT98 – 0392 (1999–2002) – Aristotle University of Thessaloniki (cod. 9105, 1999 – 2002)
17. *Improvement and Seed Production of Rangeland Plants* – Forest Research Institute, Thessaloniki (2000)

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<sup>1</sup> National Park of Prespa

<sup>2</sup> Mount Varnountas

18. *Grazing Imposed Stress Indicators in Mediterranean Shrublands* – Bilateral Project (Greece – Spain) (2000–2001) – Aristotle University of Thessaloniki (cod. 1970, 2000–2001)
19. *Special Grazing Management Study of the Sub-alpine Rangelands of Mount Grammos, Greece* – Aristotle University of Thessaloniki (cod. 20094, 2000–2002)
20. GEORANGE – Geomatics in the Assessment and Sustainable Management of Mediterranean Rangelands – E.U. – EVK2 – 2000 – 22089 – Aristotle University of Thessaloniki (cod. 20248, 2001–2004)
21. VISTA – *Vulnerability of Ecosystem Services to Land Use Change in Traditional Agricultural Landscapes (2002 – 2004)* – E.U. EVK2 – 2001 – 000356 – Aristotle University of Thessaloniki (cod. 21020, 2003)
22. *Development of Floristic Diversity Monitoring System of the Rangelands of the Protected Area of Mount Grammos, Greece* – Hellenic Ministry of Environment, Physical Planning and Public Works – Aristotle University of Thessaloniki (cod. 21194, 2003–2004)
23. *Role of Livestock Husbandry in the Protection and Development of Rangeland Habitat Types and Landscape of the Area of Lake Koronia of Municipality of Thessaloniki* – Pythagoras Programme, Hellenic Ministry of Education – Aristotle University of Thessaloniki (cod. 21893, 2004–2006)
24. ARCHIMEDES II – *Ecology of Valonia Oak Forest of Greece* – Archimedes Programme II, Hellenic Ministry of Education – Technological Educational Institute of Lamia (2005–2007)
25. ARCHIMEDES II – *Impact of Climate on the Ecophysiology, and Seed Dormancy, and Viability of Self-Reseeding Legumes* – Archimedes Programme II, Hellenic Ministry of Education – Technological Educational Institute of Kavala (2005–2007)
26. *Contribution of Valonia Oak Silvopastoral Systems of Western Greece in Local Development and Environment* – Archimedes Programme II, Hellenic Ministry of Education – Technological Educational Institute of Dytitki Ellada (2012–2015)
27. *Monitoring and evaluation of the conservation status of habitat types of Community Interest in Greece* – Aristotle University of Thessaloniki (2015)

**Prof. Dr M. Vrachnakis has also included in the teams accomplished management plans in more than 20 protected areas of Greece.**

## Publications

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### Ph.D. Thesis

**Vrachnakis M.S. 2000.** Mathematical Models in the Study of Rangeland Vegetation Dynamics. Department of Forestry and Natural Environment. Aristotle University of Thessaloniki, p. 173.

Prof. Dr M. Vrachnakis has published **more than 100 papers** in scientific journals and proceeding of international and national conferences. Indicative:

**Publications with Citation Index** (according to Science Citation Index and Conference Proceedings Citation Index of Thomson Reuters' Web of Science)

1. **Vrachnakis M.S.**, Z. Koukoura and A. Patakas. **1996.** Influence of irrigation and density in the production of two legume species under mixed conditions. *Acta Horticulturae*, 449(2):575-581.
2. Patakas A., D. Stavrakas and **M.S. Vrachnakis. 1996.** Influence of two different training systems on W.U.E. of grapevines. *Acta Horticulturae*, 449(2):461-466.
3. **Vrachnakis M.S.**, B. Noitsakis and Z. Koukoura. **1997.** The analysis of dynamic interaction in a legume binary mixture under controlled conditions of irrigation and clipping. Proceedings of XVIII International Grassland Congress. June 8 - 19, 1997. Winnipeg, Manitoba, Canada. Vol. I(7):11-12.
4. Koukoura Z., **M.S. Vrachnakis** and M. Karatassiou. **1999.** Effect of *Dactylis glomerata* and *Festuca ovina* on *Pinus brutia* seedling survival. *Grassland Science in Europe*, 4:181-185.

5. Merou Th. and **M.S. Vrahnakis**. 1999. Effects of kermes oak (*Quercus coccifera* L.) on understory plant species diversity and evenness in a Mediterranean-type shrubland. *Grassland Science in Europe*, 4:297-302.
6. Lazaridou M. and **M.S. Vrahnakis**. 2000. Combined effects of irrigation and cutting regimes on lucerne forage production. *Cahiers Options Mediterraneennes*, 45:293-297.
7. Papanastasis V.P., **M.S. Vrahnakis**, K. Iovi, P. Platis, A. Karalazos and I. Hatziminaoglou. 2002. Dynamics of herbage production in a grazed mountain grassland in Greece. *Grassland Science in Europe*, 7:348-349.
8. Sirkou D., C.L. Alados, **M.S. Vrahnakis**, V.P. Papanastasis, K. Iovi, M.L. Ginner and I. Ispikoudis. 2002. Assessment of grazing effects on Mediterranean shrubs *Phillyrea latifolia* L. and *Cistus monspeliensis* L. by developmental instability and fractal dimension. *Journal of Mediterranean Ecology*, 3(4):19-29.
9. Papanastasis V.P., **M.S. Vrahnakis**, D. Chouvardas, K. Iovi, M.M. Berdeli and I. Ispikoudis. 2003. Role of altitude and soil depth in the productive potential of natural grasslands of Macedonia, northern Greece. *Grassland Science in Europe*, 8:21-24.
10. **Vrahnakis M.S.** 2003. Modelling competition in annual clovers. *Grassland Science in Europe*, 8:499-502.
11. Alados C.L., A. El Aich, V.P. Papanastasis, H. Ozbek, T. Navarro, H. Freitas, **M. Vrahnakis**, D. Larrosi and B. Cabezudo. 2004. Change in plant spatial patterns and diversity along the successional gradient of Mediterranean grazing ecosystems. *Ecological Modelling*, 180:523-535.
12. **Vrahnakis M.S.**, G. Goudelis, E. Papanikolaou and P. Voulgari. 2004. Changes of plant species diversity due to slope exposure in the core area of Mount Parnassos National Park, Greece. In: Proceedings (CD format) of the 10<sup>th</sup> International Conference on Mediterranean Climate Ecosystems (MEDECOS). Ecology, Conservation and Management of Mediterranean Climate Ecosystems. M. Arianoutsou, and V.P. Papanastasis (eds). 25 April – 1 May 2004, Rhodes Island, Greece.
13. **Vrahnakis M.S.**, C.L. Alados, V.P. Papanastasis, K. Iovi, M.M. Berdeli and D. Sirkou. 2004. Fire impact on plant species distribution in grazed maquis shrublands. In: Proceedings (CD format) of the 10<sup>th</sup> International Conference on Mediterranean Climate Ecosystems (MEDECOS). Ecology, Conservation and Management of Mediterranean Climate Ecosystems. M. Arianoutsou, and V.P. Papanastasis (eds). 25 April – 1 May 2004, Rhodes Island, Greece.
14. **Vrahnakis M.S.**, A. Kyriazopoulos, G. Fotiadis, A. Sidiropoulou and A. Dionisopoulou. 2005. Changes in components of floristic diversity in three adjacent rangeland types. *Grassland Science in Europe*, 10:144-148.
15. **Vrahnakis M.S.**, G. Fotiadis, D. Chouvardas, K. Mantzanas and V.P. Papanastasis. 2005. Components of floristic diversity in kermes oak shrublands. *Grassland Science in Europe*, 10:149-152.
16. Lazaridou M. and **M.S. Vrahnakis**. 2005. Cutting effects on persistence and sustainability of an alfalfa-tall fescue mixture. *Grassland Science in Europe*, 10:190-194.
17. Imrichová Z. and **M.S. Vrahnakis**. 2005. Revealing changes in biodiversity pattern by means of PFTs. *Grassland Science in Europe*, 10:128-131.
18. **Vrahnakis M.S.**, G. Fotiadis, Th. Merou and S. Plastargia. 2006. Genus *Trifolium* L. in Greece: distributional aspects and life traits. *Grassland Science in Europe*, 11:321-323.
19. **Vrahnakis M.S.**, P. Kostopoulou, M. Lazaridou, Th. Merou and G. Fotiadis. 2008. Modelling growth responses of annual legumes to water shortage. *Options Mediterraneennes*, A(79):275-278.
20. Chouvardas D. and **M.S. Vrahnakis**. 2009. A semi-empirical model for the near-future evolution of the lake Koronia landscape. *Journal of Environmental Protection and Ecology*, 10(3):867-876.
21. **Vrahnakis M.S.**, M. Kadroudi, E. Kyriazi, D. Vasilakis, Y. Kazoglou and P. Birtsas. 2009. Variation of structural and functional characteristics of grasslands in the foraging areas of the Eurasian black vulture (*Aegypius monachus* L.). *Grassland Science in Europe*, 14:269-272.
22. Kostopoulou P., **M.S. Vrahnakis**, Th. Merou and M. Lazaridou. 2010. Perennial-like adaptation mechanisms of annual legumes to limited irrigation. *Journal of Environmental Biology*, 31:311-314.

23. Fotiadis G., **M.S. Vrahnakis**, Th. Merou and K. Vidakis. **2010**. Ecology, chorology and commonness of the *Trifolium* taxa in Greece. *Feddes Repertorium*, 121(1-2):66-80.
24. **Vrahnakis M.S.**, G. Fotiadis, Th. Merou and Y.E. Kazoglou. **2010**. Improvement of plant diversity and methods for its evaluation in Mediterranean basin grasslands. *Options Méditerranéennes (A)*, 92:225-236.
25. Kazoglou Y., G. Fotiadis, **M. Vrahnakis**, I. Koutseri and A. Crivelli. **2011**. Assessment of riparian forest vegetation of rivers supporting the Prespa Trout in the Transboundary Prespa Park. *Ecohydrology & Hydrobiology*, 11(1-2):63-78.
26. Chouvardas D., **M.S. Vrahnakis**, D. Bousbouras, Ch. Evangelou, E. Lampou and L. Georgiadis. **2013**. Modelling habitat suitability of agrosilvopastoral landscapes for brown bear (*Ursus arctos*). *Journal of Environmental Protection and Ecology*, 14(1):162-171.
27. Fotiadis G., **M. Vrahnakis**, Y. Kazoglou and I. Tsiripidis. **2014**. Dry grassland types in the Prespa National Park (NW Greece), including the southernmost occurrence of the priority habitat type "Pannonic sand steppes" (code 6260). *Hacquetia* 13(1):171-189.
28. **Vrahnakis M.S.**, G. Fotiadis, A. Pantera, G. Goudelis, A. Papadopoulos and V.P. Papanastasis. **2014**. Floristic diversity of valonia oak silvopastoral woodlands in Greece. *Agroforestry Systems*, 88(5):877-893.
29. **Vrahnakis M.**, G. Fotiadis and Y. Kazoglou. **2015**. Rangeland and forest habitat quality of the endemic Prespa trout after road improvement works. *Journal of Environmental Protection and Ecology*, 16(4):1380–1388.
30. **Vrahnakis M.**, S. Nasiakou, Y. Kazoglou and G. Blanas. **2016**. Business model for agroforestry consulting company. *Agroforestry Systems*, 90(2):219–236.
31. Venn S., D. Ambarli, I. Biurrun, Jürgen Dengler, M. Janišová, A. Kuzemko, P. Török and **M. Vrahnakis**. **2016**. The Eurasian Dry Grassland Group (EDGG) in 2015–2016. *Hacquetia* 15(2):15-19.
32. Strid A., E. Bergmeier, F.-N. Sakellarakis, Y. Kazoglou, **M. Vrahnakis** and G. Fotiadis. **2017**. Additions to the flora of the Prespa National Park, Greece. *Phytologia Balcanica*, 23(2):207-269.
33. **Vrahnakis M.**, S. Nasiakou and K. Soutsas. **2017**. Public perception on measures needed for the ecological restoration of Grecian Juniper silvopastoral woodlands. *Agroforestry Systems*. <https://doi.org/10.1007/s10457-017-0163-9>.
34. Venn S., D. Ambarli, I. Biurrun, J. Dengler, A. Kuzemko, P. Török and **M. Vrahnakis**. **2018**. The Eurasian Dry Grassland Group (EDGG) in 2016–2017. *Hacquetia*, 17(1):17–23.

#### International recognition

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#### **Citation statistics according to Harzing's Publish or Perish online software**

<http://www.harzing.com/pop.htm>

**Reference date:** 27/7/2018 21:40:36

**Publication years:** 1996-2018

**Citation years:** 22 (1996-2018)

**Papers:** 58

**Citations:** 245

**Citations/year:** 11.14

**Citations/paper:** 4.22

**Citations/author:** 60.37

**Papers/author:** 20.47

**Authors/paper:** 3.48/4.0/4 (mean/median/mode)

**Age-weighted citation rate:** 30.84 (sqrt=5.55), 7.69/author)

**Hirsch h-index:** 5 (a=9.80, m=0.23, 161 cites=65.7% coverage)

**Egghe g-index:** 14 (g/h=2.80, 197 cites=80.4% coverage)

**PoP hl,norm:** 3

PoP HI,annual: 0.14

### Invited editor

α) ***Land Degradation and Development***: Special issue on “*The impact of grazing on land degradation: A common problem with many driving forces*”. Editor: Artemi Cerdà, Guest editors: Manuel Pulido (Spain), Valdemir Antoneli (Brazil), Warwick Badgery (Australia), **Michael Vrahnakis (Greece)**.

β) ***Hacquetia***: Special feature on “*Biodiversity, ecology and conservation of Palaearctic grasslands*”. Editors: Stephen Venn (Finland), Orsolya Valkó (Hungary), Idoia Biurrun (Spain), Jacqueline Loos (Germany), Rocco Labadessa (Italy), **Michael Vrahnakis (Greece)**, Michal Zmihorski (Poland).

### Reviewer in international research journals

- *Rangeland Ecology and Management*
- *Tuexenia*
- *International Journal of Science and Technology Education Research*
- *Journal of Agronomy and Crop Science*
- *Biodiversity and Conservation*
- *Land Degradation and Development*
- *Hacquetia*
- *Phytocoenologia*
- *International Journal of Environmental Monitoring and Analysis*
- *American Journal of Environmental Protection*
- *Environmental Management*
- *The Journal of Animal and Plant Sciences*

### Participation in international expert committees

- In the international scientific team for the *Development of the Adaptive Management System of the Protected Area of Axios, Loudias and Aliakmon* – Thessaloniki (4–6 March 2008) – Eurosite, Foundation of Success.
- In the international scientific team for the *Development of a Transboundary Monitoring System in the Prespa Park Area* – Korce, Albania (20 February 2009), Struga, FYROM (15 May 2009) – Transboundary Prespa Park, Global Environmental Facility (GEF), United Nation Development Programme (UNDP).
- As expert in the *Mediterranean Natura 2000 Seminar* (Grasslands/ Heaths and Scrubs Working Group), Thessaloniki, Greece, (25–28 May 2014), European Commission.
- As expert for the organization of the Session *The impact of grazing on soil landforms, water and biota resources* (Section BG2: Terrestrial Biosciences) during the General Assembly 2015 of the EGU (European Geosciences Union), Vienna, Austria, 12 – 17 April, 2015.
- As expert during the study visit of scientists from Bulgaria to support the implementation of *Strategic Plan for management of mountain pastures on the territory of Central Balkan National Park* – Prespa, Greece, 04 – 05 June 2015.
- As representative of the Eurasian Dry Grassland Group in the Conference of European Forum for Nature Conservation and Pastoralism (EFNCP), *Supporting High Nature Value Farming in Europe*, Burren Winterage School 2015, Corofin (Co. Clare), Ireland, 22-25 October, 2015.