

## **NICHOLAS G. DANALATOS, MSc, PhD**

Professor of Agronomy and Crop Ecology  
University of Thessaly, Dept of Agriculture Crop Production and Agricultural Environment

### **SUMMARY**

#### **BIOGRAPHIC DATA**

Place of birth: Kos, Greece / 06-10-1958.

Father name: Gerassimos N. Danalatos

Mother name: Anthoula G. Granas

Office address: University of Thessaly Dept. of Agriculture Crop Production and Agricultural Environment, 38446 Volos, Greece, Tel.: +30 2421093118 Fax: +302 4210 93127.

E-mail: danal@uth.gr

#### **STUDIES**

1976: Diploma Experimental School of the University of Athens

1976-1982: Studies at the Agricultural University of Athens

1972-1979: Language studies at the Goethe Institut Athen

1978-1979: Grundstufe - Mittelstufe (Goethe Institut Athen)

1982: Diploma Agricultural Engineering, Agric. Univ. of Athens

1983-1985 M.Sc. Course in Soil Science and Water Management in Agric. Univ. Wageningen.

1986-1993 PhD studies at the Agricultural University of Wageningen.

1993: Ph.D. Quantified Land Evaluation (Computer assisted Land Use Systems Analysis) and Agropedology, Agric. University of Wageningen.

#### **LANGUAGES**

Greek (mother tongue), Dutch (perfect speaking, reading, writing), English (perfect speaking, reading, writing), German (perfect reading, writing, reasonable speaking), French (reasonable reading, writing, comprehension)

#### **FELLOWSHIPS**

1984-1985: Dutch Government (Min. of Education) for M.Sc studies

1986-1990: Dutch Government (Min. of Education) for Ph.D studies.

1991-1992: Dutch Government (Min. of Education) for Ph.D studies.

1992-1993: Dutch Government (Min. of Agriculture and Fisheries – Agric. Univ. Wageningen.

#### **WORK EXPERIENCE**

- 2006-today: Professor of Agronomy and crop Ecology, University of Thessaly (www.uth.gr), Dept. of Agriculture Crop Production and Agricultural Environment – Director Laboratory of Agronomy and Applied Crop Physiology – Vice Chair Department of Agriculture, Crop Production and Agricultural Environment (elected for 2007-2008 and 2009-2011) – Director of Post Graduate Studies of the School of Agricultural Studies, University of Thessaly (elected for the period 2007-present).
- 2003-2006: Associate Professor in Landscape Ecology, University of Aegean (www.aegean.gr), Dept. of Environmental Studies.
- 2001-2003: Assistant Professor University of Thessaly, Dept. of Agriculture.
- 1996-2000: Senior Lecturer University of Thessaly, Dept. of Agriculture.
- 1991-1992: Scientific Guest-worker Agric. University of Wageningen, The Netherlands.
- 1990-1991 and 1992-1996: Scientific Co-worker at the Agricultural University of Athens, Lab. Soil Science and Laboratory of Agric. Engineering.

## **MEMBERSHIP PROFESSIONAL/SCIENTIFIC ORGANIZATIONS**

1982 - today: Member of the Geotechnical Chamber of Greece.  
1986-1989: Member of the M.Sc./Ph.D. Commission of the Agric. University of Wageningen  
1985 - today: Life Member ISSS, International Society of Soil Science  
1985 - today: Member Greek Society of Soil Science  
1990 – today: Consultant of the Athens Court of Justice on Agricultural Matters  
1997-today: Founding member of the Thessalean Ecological Organization.  
1996 - today: Member of EurAgEng, European Society of Agricultural Engineers  
1996 - today: Twice elected member of the executive council of the Greek Society of Agricultural Engineers.  
1996 - 2006: Member of the National Committee to Combat Desertification.  
1999 -2002: Member of 4 Committees preparing the respective Action Plans against Nitrification in Greek plains (Thessaly plain, Kopaida plain, Argolid plain, Pineios plain).  
2002 – today: Member of the Greek Society of Hydrology.  
2008- Member of the Executive Board of the National Center of Environment and Sustainable Development.

## **TEACHING EXPERIENCE**

- Teaching assisstanships at the Agricultural University of wageningen (period 1986-90).
- Large number of lectures and seminars at national Institutes and Agric. Universities on subjects related to soil science, sustainable agriculture, soil erosion, land degradation and desertification, crop-growth modeling, biomass crops, Environmental Protection (TEMPUS, etc.)
- Since 1996, he teaches the following courses at the Univ. of Thessaly and the University of Aegean: Crop Production, Applied Crop Production I and II, Crop growth modeling, Applied Crop growth modeling (post graduate), Environmental Soil Science (post graduate), Agricultural Land Use Systems and Environment (post graduate), Fundamental Ecology (post graduate), Bio-energy Producing Crops (post-graduate), Supervision of 100 graduate and 50 post-graduate Theses. Member of the Examining Commissions of 30 PhD programs. Responsible for 5 PhD Theses currently being carried out.

## **RESEARCH EXPERIENCE**

- Author of 30 Journal Papers (h-factor 10, citation index 400 ISI Web Science), 27 International Book chapters, 84 publications in International Proceedings, and 36 other scientific articles.
- Owner of the Industrial Property Organization Patent No 1005863 /15/3/07 on solid biofuel production in Greece and internationally.
- Coordination of the following major international Projects:
  - 2008-2010. Production of cardoon seed for biofuel production, and cultivation of highly productive cardoon crop for solid biofuel production in Romania. Budget 1.788.890 €. UTH- NEPTUN-ROMANIA.
  - 2003-2006. Biomass production chain and growth simulation model for Kenaf – BIOKENAF. (QLK5-CT-2002-01729). Budget: 160.000 €. UTH-EU.
  - 2006-2009. Creation of innovative experiences with innovative character for the documentation of the possibility of producers to shift their cultivation towards the production of energy crops. Budget: 280.000 €. Measure 10, Reg. (EK) 2182/02. UTH-EU- Ministry of Agriculture.
  - 2009-2011. Research on ground water quality in Thessaly. Budget: 120.000 €. UTH- Ministry of Agriculture.
- Contribution in 15 more EU R&D Projects (see projects).

## CONTRIBUTION IN PROJECTS

- 2008-2012. NEPTUN Romania– UTH “Production of cardoon seed for biofuel production, and cultivation of highly productive cardoon crop for solid biofuel production in Romania”, Coordination, Budget € 1.788.890.
- 2006-2009. European Union "Creation of Innovative Experiences with a Probative Character for the Documentation of the Possibility of the Tobacco Producers to Shift to the Energy Crop Cultivations (Measure 10, Regulation (EU)2182/02)". (Contractor, budget € 100.000).
- 2003-2006. *Biomass production chain and growth simulation model for Kenaf – BIOKENAF*. (QLK5-CT-2002-01729). UTH (Contractor, budget € 160,0000).
- 2003-2006. *AFTUR Alternatives Fuels Industrial Gas TURbines* (MNE-2001-00821). CRES-AUA (5<sup>th</sup> Framework).
- 1999-2001. Environmental studies on sweet and fiber sorghum for biomass and bioenergy production. CRES, (*Coordination, budget 4.400.000 GDR*).
- 1997-2000. *TERON, Tillage Erosion : Current State, Future Trends and Prevention* (FAIR3-CT96-1478). Agricultural University of Athens.
- 2000-2001. SOCRATES 2000-2001 University of Thessaly - University of Rousse, Boulgaria. EEC funding.
- 1998-2001. YPER97: Impact of soil moisture and fertigation in growth and development of cotton. GGET/97YP-15.
- 1997-2000. DIMITRA 95: Evaluation of new and conventional land use systems with winter cereals. Economic and Environmental impacts. GGET-NAGREF-University of Thessaly (Contractor).
- 1998-2000. Improvement of the Curriculum of the Department of Agriculture Crop and Animal Production of the University of Thessaly. GGET-EPEAEK.
- 1998-2001. Development of the Post Graduate Program of the Department of Agriculture (Modern Systems of Agricultural Production with emphasis on Sustainable Productivity and the Use of Modern Technologies).
- 1998-1999. Growth and Development of miscanthus (*Miscanthus sinensis x giganteus*) under different soil fertility and plant populations in Thessaly. Research Committee University of Thessaly (*Coordination, Budget 800.000 GDR*).
- 1997-1998. Soil Survey in Pezio Raches area, Icaria. Prefecture of Samos.
- 1996-1998. *Mediterranean Desertification And Land Use (MEDALUS III)*. EEC-EPOCH Programme, ENV4-CT95-0119. Agricultural University of Athens.
- 1994-1996. *ECRASE: Evalation of the effect of climate variations on the recharge of aquifers in southern European catchments*.EU, Proj. No. EV5V-0584. Agricultural University of Athens.
- 1995-1997. *EPET II. Experimental application of urban and agricultural wastes for irrigation using proper filters and new technology nozzles*. Metro 1,1, No. Project 267. Agricultural University of Athens (GGET-NAGREF Larissa, Inst. Pasteur, EYDAP etc).
- 1995-1997. *Use of waste water for irrigation, a global approach blending with water treatment, irrigation with various systems on various crops and institutional/organizational aspects*. EEC - Contract No. AVI-CT94-0002 (DG12 HSMU). Agricultural University of Athens.
- 1994-1997. *Models for the economic evaluation of selected biomass cultivations as an alternative land use in the European Union*. EEC - Contract No. AIR3-CT93-0985. Agric. Univ. of Athens.
- 1993-1995. *Development of a complete reference system for harvesting, collecting, storing and converting high yield crops for energy efficient and environmentally acceptable production of electricity*. E.U. Project No. JOULE II-CT92-0118. Agricultural University of Athens.

- 1995. *Soil Survey of the Aravonitsa (Egion) area*. In the framework of E.E.C. PROJECT EV5V-CT94-0452. University of Athens, Dept. of Geology.
- 1989-1991. *Evaluation of Soil Resources of the Prespa Region*". E.E.C. Project No. B6617-25-89. Agricultural University of Athens.
- 1991-1992. *MEditerranean Desertification And Land Use (MEDALUS)*. EEC-EPOCH Programme, EC PL890092. Agricultural University of Athens.
- 1993-1995. *Mediterranean Desertification And Land Use (MEDALUS II)*. EC - Agricultural University of Athens.
- 1991-1995. *Water and Solute Transport in European Soils (WASTES)*. EEC - STEP Programme, STEP-CT-90-0032-C(DSCN). Agricultural University of Athens.
- 1993-1996. *The use of C4 perennials (Miscanthus) as basis material for the construction of buildings*: EEC - Contract No: AIR1 - CT92 - 0511. Agricultural University of Athens.
- 1993-1996. *Improvement of Eucalyptus management. An integrated approach: Breeding, Silviculture, Economics*. EEC - Contract No. AIR2-CT93-1678. Agricultural University of Athens.

## PUBLICATIONS

### A. International Textbooks

- Danalatos, N.G., 1993. *Quantified Analysis For Specific Land Use Systems in the Larissa Region, Greece*. Ph.D. Thesis, Agricultural University of Wageningen. ISBN 90-5485-063-9. Wageningen, The Netherlands, 370 5pp.
- Kosmas, C. and N.G. Danalatos, 1994. Climate change, desertification and the Mediterranean region. In: Rounsevell, M.D.A. & P.J. Loveland (Eds.), *Soil Response to Climate Change*, NATO ASI Series, Vol. I-23. Springer-Verlag, Berlin, Heidelberg, p. 25-38.
- Kosmas, C., A. Mizara, N. Danalatos and N. Yassoglou (Eds), 1995. *Proceedings of the Third International Meeting on Red Mediterranean Soils*, held in Chalkidikiki, May 1995. Summary Papers. Soil Sci. Soc. of Greece, Agric. Univ. of Athens, Aristotle Univ. of Thessaloniki, Int. Soc. of Soil Science. Athens, 279 pp.
- Danalatos, N.G., C. Dalianis and S. Kyritsis, 1996. Growth and biomass productivity of *Miscanthus sinensis x giganteus* under optimum cultivation management in north-eastern Greece. In: Chartier *et al.* (Eds.): *Biomass for Energy and the Environment*. Perg. Press, UK, p. 548-553.
- Kosmas, C.S., N. Moustakas, N.G. Danalatos and Yassoglou, 1996. The Spata Field Site. 1. The impacts of land use and management on soil properties and erosion. 2. The effects of reduced moisture on soil properties and wheat production. In: Brandt, J. & J. Thornes (Eds.), *Mediterranean Desertification and Land Use*. J. Wiley & Sons, London, N.Y., p. 207-228.
- Kosmas, C. and N.G. Danalatos, 1997. Land use change and soil properties affecting desertification at the Spata field site, Athens, Greece. In: Mairota, P. and J. Thornes (Eds.), *Atlas of Mediterranean Environments in Europe: A Desertification Context*. J. Wiley & Sons, London, NY, p. 121-128
- Kosmas, C.S. & N.G. Danalatos, 1998. Definition and mapping of desertification units in Mediterranean areas under rainfed cereals. In: Boardman, J. & D.F. Mortlock (Eds.), *Modelling Soil Erosion by Water*. NATO ASI Series, Vol. I 55. Springer-Verlag. Berlin, Heidelberg, p. 491-501.
- Kosmas, C., N. Danalatos, C. Kassioumis and St. Gerontidis, 1996. Actions taken by the Greek National Agencies to mitigate the effects of desertification. In: Thornes, J.B. & S. Burke (Eds.): *Actions taken by National Governmental and Non-governmental organizations to mitigate desertification in the Mediterranean*. Concerted Action on Mediterranean Desertification, EUR 18490 EN, p. 41-63.

- Kosmas, C.S., N.G. Danalatos and A. Mizara, 1998. Greece. In: Conacher, A.J. & M. Sala (Eds.), *Land Degradation in Mediterranean Environments of the World: Nature, Causes and Solutions*. John Wiley & Sons Ltd., p. 67-79.
- Danalatos, N.G., C. Dalianis, P. Skylourakis and S. Kyritsis, 1998. Growth and biomass productivity of eucalyptus species under Greek conditions. In: N. El Bassam, R.K. Behl and B. Prochnow (Eds.), *Sustainable Agriculture For Food Energy And Industry*. James & James Ltd.: 787-792.
- Danalatos, N.G., C. Dalianis and S. Kyritsis, 1998. Influence of fertilisation and irrigation on the growth and biomass productivity of *Miscanthus sinensis* x *giganteus* under Greek conditions. In: N. El Bassam, R.K. Behl and B. Prochnow (Eds.), *Sustainable Agriculture For Food Energy And Industry*. James & James Ltd.: 319-323.
- Sala, M., Coelho, C., Ballais, J. L., Kosmas, C., Danalatos, N.G., Mizara, A., Bilandzija, J., Frankovic, M., Kaucic D., Inbar, M., Laouina, A., Orme, A., Orme A., Castro, C., Caderon, M., Meadows, M., Canacher, A., and Conacher, J. 1998. Problems of land degradation. In: A. Conacher and M. Sala (eds.), *Land Degradation in the Mediterranean Environments of the World*, J. Wiley & Sons, 175-355.
- Sala, M., Coelho, C., Ballais, J. L., Sorriso-Valvo, M., Kosmas, C., Danalatos, N.G., Mizara, A., Bilandzija, J., Frankovic, M., Kaucic D., Inbar, M., Laouina, A., Orme, A., Orme A., Castro, C., Caderon, M., Meadows, M., Canacher, A., and Conacher, J. 1998. Solutions of land degradation. In: A. Conacher and M. Sala (eds.), *Land Degradation in the Mediterranean Environments of the World*, J. Wiley & Sons, 359-423.
- Kosmas, C., N. Danalatos and P. Kosmopoulou, 2001. Soil erosion in Greece. In: Boardman, J. & J. Poesen (Eds), *Soil erosion in Europe*. J. Wiley & Sons Ltd., London.
- Kosmas, C., N.G. Danalatos, F. Lopez-Bermudez and M.A. Romero Diaz, 2002. The effect of land use on soil erosion and land degradation under Mediterranean conditions. In: Geeson, N.A., C.J. Brandt and J.B. Thornes (Eds.), *Mediterranean Desertification. A Mosaic of Processes and Responses*. John Wiley & Sons LTD, p. 57-70.
- Van Wesemael, B., J. Poesen, C. Kosmas, N.G. Danalatos, and J. Nachtergaele, 2002. The impact of rock fragments on soil degradation and water conservation. In: Geeson, N.A., C.J. Brandt and J.B. Thornes (Eds.), *Mediterranean Desertification. A Mosaic of Processes and Responses*. John Wiley & Sons LTD, p. 131-146.
- Mitsios, I.K. and N.G. Danalatos, 2006. Bioavailability of Trace Elements in Relation to Root Modification in the Rhizosphere. In: Prasad, M.N.V., K.S. Sajwan and R. Naidu (Eds.), *Trace Elements in the Environment*. CRC press, p. 25-34.

## **B. International Journals**

- Kosmas, C.S., N.G. Danalatos, N. Moustakas, B. Tsatiris, Ch. Kallianou and N. Yassoglou, 1993. The impacts of parent material and landscape position on biomass production of wheat under semi-arid conditions. *Soil Technology*, Vol. 6, p. 337-349. (i.f. 1.083).
- Danalatos, N.G., C.S. Kosmas, P.M. Driessen, and N. Yassoglou, 1994. Estimation of the draining soil moisture characteristic from standard data as recorded in routine soil surveys. *Geoderma* 64: 155-165. (i.f. 1.898).
- Yassoglou, N., C.S. Kosmas, N. Moustakas, E. Tzianis and N.G. Danalatos, 1994. Cracking in recent alluvial soils as related to easily determined soil properties. *Geoderma* 63: 289-298. (i.f. 1.898).
- Kosmas, C., N. Moustakas, N.G. Danalatos and N. Yassoglou, 1994. The effect of rock fragments on wheat biomass production under highly variable moisture conditions in Mediterranean environments. *Catena* 23 (1994): 191-198. (i.f. 1.346).
- Danalatos, N.G., C. Kosmas, P.M. Driessen and N. Yassoglou, 1994. The change in the specific leaf area of maize grown under Mediterranean conditions. *Agronomie* 14(1994): 1-8. (i.f. 0.953).
- Moustakas, N.C., C.S. Kosmas, N.G. Danalatos & N. Yassoglou, 1995. Rock fragments I. Their effect on runoff, erosion and soil properties under field conditions. *Soil Use and Management* 11: 115-120. (i.f. 1.163).

- Danalatos, N.G., C.S. Kosmas, N.C. Moustakas & N. Yassoglou, 1995. Rock fragments II. Their impact on soil physical properties and biomass production under Mediterranean conditions. *Soil Use and Management* (1995) 11: 121-126. (i.f. 1.163).
- Van Wesemael, B., J. Poesen, C.S. Kosmas, and N. G. Danalatos, 1996. The role of rock fragments in evaporation from cultivated soils under Mediterranean conditions. *Phys. Chem. Earth*, Vol. 20, No. 3-5, pp. 293-299. (i.f. 0.518). Van Wesemael, B., J. Poesen, C.S. Kosmas, N. G. Danalatos and J. Nachtergaele, 1996. Evaporation from cultivated soils containing rock fragments. *Journal of Hydrology* 182: 65-82. (i.f. 2.161).
- Ntzanis, E., N.G. Danalatos and S. Ntzani, 1996. Accumulated heat units as a method for predicting tobacco maturity. *Tobacco Science* 40: 37-43. (i.f.:?)
- Kosmas, C.S., N.G. Danalatos and N.K. Moustakas, 1997. The soils of Prespa, Northwestern Greece. *Hydrobiologia* 351: 21-33. (i.f. 1.201). Kosmas, C., N. Danalatos, L.H. Cammeraat, M. Chabart, J. Diamantopoulos, R. Farand, L. Gutierrez, A. Jacob, H. Marques, J. Martinez- Fernandez, A. Mizara, N. Moustakas, J.M. Nicolau, C. Oliveros, G. Pinna, R. Puddu, J. Puigdefabregas, M. Roxo, A. Simao, G. Stamou, N. Tomasi, D. Usai, A. Vacca, 1997. The effect of land use on runoff and soil erosion rates under Mediterranean conditions. *Catena* 29: 45-59. (i.f. 1.346).
- Kosmas, C., N.G. Danalatos, J. Poesen and B. van Wesemael, 1998. The effect of water vapour adsorption on soil moisture content under Mediterranean conditions. *Agric. Water Management* (2): 157-168. (i.f. 0.672). Kosmas, C., N.G. Danalatos, and St. Gerontidis, 1999. The effect of land parameters on vegetation performance and degree of erosion under Mediterranean conditions. *Catena* (1):3-17. (i.f. 1.346).
- Karyotis, Th., A. Panagopoulos, D. Pateras, N. Danalatos, C. Agelakis and C. Kosmas, 2002. The Greek Action plan for the mitigation of nitrates in water resources of the vulnerable district of Thessaly. *J. Mediterranean Ecology* 3 (2002): 77-83. (i.f.:?).
- Rozakis S., N. Danalatos and K. Tsiboukas, 2001. Crop rotation in Thessaly: Bio-economic modeling for efficient farm management. *MEDIT* 4: 50-57. (από το 2002 NEW MEDIT, <http://netserver.iamb.it/en/index.htm>).
- Valmis, S., D. Dimoyiannis and N.G. Danalatos, 2005. Assessing interrill erosion rate from soil aggregate instability index, rainfall intensity and slope angle on cultivated soils in Greece. *J. Soil & Tillage Research* (1,2): 139-147 (i.f. 1.846).
- Dimoyiannis, D., S. Valmis and N.G. Danalatos, 2007. Factors affecting interrill erosion rate on cultivated Greek soils. *Earth Surface Processes and Landforms* J 31(8): 940-949 (i.f. 1.310).
- Terzudi, Ch., T.A. Gemtos and N.G. Danalatos, 2007. Assessment of water runoff under different tillage cultivations. *J. Soil & Tillage Research* 92(1-2):198-212. (i.f. 1.846).
- Danalatos NG, Archontoulis SV, Mitsios I, 2007. Potential growth and biomass productivity of *Miscanthus sinensis* as affected by plant density and N-fertilization in central Greece. *J. Biomass & Bioenergy* (2007) 31: 145–152. ( i.f. 3.9).
- Sgouras I, Tsadilas CD, Barbayiannis N, Danalatos NG, 2007. Physicochemical and Mineralogical Properties of Red Mediterranean Soils from Greece Communications in Soil Science and Plant Analysis, 38: 695–711.
- Grammelis, P., A. Malliopoulou, P. Basinas and N.G. Danalatos, 2008. Cultivation and characterization of *Cynara cardunculus* for solid biofuels production in the Mediterranean region. *Int. J. Mol. Sci.* 2008, 9, 1-x manuscripts (in press). (i.f. 1.450).
- Archontoulis SV, Struik PC, Yin X, Bastiaans L, Vos J, Danalatos NG, 2010. Inflorescence characteristics, seed composition, and allometric relationships predicting seed yield in the biomass crop *Cynara cardunculus*. *Global Change Biology–Bioenergy*, 2, 113–129. Impact factor = 2.4.
- Archontoulis SV, Struik PC, Vos J, Danalatos NG, 2010. Phenological growth stages of *Cynara cardunculus*: Codification and description according to the BBCH scale. *Annals of Applied Biology* 156, 253–270. Impact factor = 1.8.

- Danalatos NG, Archontoulis SV, 2010. Growth and biomass productivity of kenaf (*Hibiscus cannabinus*) under different agricultural inputs and management practices in Greece. *Industrial Crop and Products*, 32: 231–240. Impact factor = 2.3.
- Archontoulis SV, Yin X, Vos J, Danalatos NG, Struik PC, 2011. Leaf photosynthesis and respiration of three bioenergy crops in relation to temperature and leaf nitrogen: How conservative are biochemical model parameters among crop species? *Journal of Experimental Botany* (in press, doi:10.1093/jxb/err321). Impact factor = 4.9.
- Archontoulis SV, Vos J, Yin X, Bastiaans L, Danalatos NG, Struik PC, 2011. Temporal dynamics of light and nitrogen vertical distributions in canopies of sunflower, kenaf and cynara. *Field Crops Research* 122: 186–198. Impact factor = 2.3.

### C. International Congresses

- Kosmas, C. , N. Moustakas, N.G. Danalatos, B. Tsatiris, Ch. Kallianou and N. Yassoglou, 1993. Mediterranean desertification and land use. 1st International Congress on the Environment held in Athens, 21-24 March 1993. Books of Abstracts, p 52.
- Yassoglou, N., C. Kosmas, Ch. Kallianou, N. Moustakas, E. Ntzanis and N. Danalatos, 1993. 1st International Congress on the Environment held in Athens, 21-24 March 1993. Books of Abstracts, p. 54.
- Yassoglou, N., C. Kosmas, and N.G. Danalatos, 1994. Global change and land degradation. International Symposium on: Eastern Europe and Global Change, Chalkidiki Greece, 3-10 October 1994.
- Kosmas, N.G. Danalatos, N.C. Moustakas, A. Mizara and N. Yassoglou, 1995. A methodology for mapping desertification units in Mediterranean landscapes. In: C. Kosmas *et al.* (Eds): *Proceedings of the Third International Meeting on Red Mediterranean Soils*, held in Chalkidiki, May 1995. Athens, p. 120-124.
- Van Wesemael B., J. Poesen, C. Kosmas, and N.G. Danalatos, 1995. The role of rock fragments in evaporation from cultivated soils under Mediterranean climatic conditions. European Geographical Society, Annales Geophysicae, Part II Oceans, Atmosphere, Hydrology & Nonlinear Geophysics, Supplement II to Volume 13.
- Kosmas, C., N. Danalatos, E. Ntzanis and N. Yassoglou, 1996. The application of pedotransfer functions in predicting ground water recharge at regional scale. In: *The Use of Pedotransfer in Soil Hydrology Research in Europe*. Proceedings of the Second Workshop, INRA Orleans (France), 10- 12/10/1996, p. 111-119.
- Aggelides, S., I. Argyrokastritis, E. Tsouloucha, N.G. Danalatos and A. Poulouvassilis, 1996. Estimation of ponding time through different approaches using field infiltration data in southern Greece. International Conference on Mediterranean Desertification held in Crete, 29/10-1/11/1996 under the auspices of the European Commission DGXII and NAGREF.
- Danalatos, N.G., C. Kosmas, B. van Wesemael and J. Poesen, 1996. The effect of rock fragments on erosion, soil-water conservation and desertification. International Conference on Mediterranean Desertification held in Crete, 29/10-1/11/1996 under the auspices of the European Commission DGXII and NAGREF.
- Kosmas, C., N.G. Danalatos, S. Gerontidis and N. Yassoglou, 1996. Land characteristics and management practices affecting desertification in Lesbos. International Conference on Mediterranean Desertification held in Crete, 29/10-1/11/1996 under the auspices of the European Commission DGXII and NAGREF.
- Polychronides, S. Galanopoulou, S. Aggelides and N. Danalatos, 1998. The effect of irrigation and fertilization practice on cotton growth and development under Greek conditions. Proceedings World Cotton Research Conference – 2, Athens 6-12 Sept. Vol. 1. pp. 405-407.
- Bartzialis, D., S. Galanopoulou, N. Danalatos and Ch. Karamaligas, 1998. Mechanizable picking of cotton cultivated in narrow rows in Greece. Proceedings World Cotton Research Conference – 2, Athens 6-12 September. Vol. 1, pp. 410-412.
- Danalatos, N.G., S. Galanopoulou, A. Gertsis and K. Kosmidou, 1998. Comparative review of the most important weather parameters and their impact on cotton yield under Greek conditions. Proceedings World Cotton Research Conference – 2, Athens 6-12 September, pp. 379-383.
- Danalatos, N.G., C. Kosmas, St. Gerontides and S. Tzortzios, 1998. A simplified crop water balance simulation model and its applicability for estimating the water-limited production of wheat under semi-arid conditions. 7th ICCTA – International Congress for Computer Technology in Agriculture, 15-18 November 1998, Florence, Italy.
- Danalatos, N.G., P.M. Driessen, N. Yassoglou and L.J. Pons, 1999. Genetic trends and classification of soils in Central Greece. Extended Abstracts of the 6th International

Meeting on Soils with Mediterranean Type of Climate, held in Barcelona, 4-9 July, p. 398-400.

- Yassoglou N.J., Kosmas C.S., and N.G. Danalatos., 1997. Global change and land degradation. In: Ghazi, A., P. Mathy & C. Zerefos (Eds), *Eastern Europe and Global Change*, EUR 1745: 225-248.
- Galanopoulou, S., N.G. Danalatos and D. Bartzialis, 2000. Towards a low-input sustainable cotton production in Greece. Accepted as oral presentation in the International Cotton Research Conference, held in Nagpur, India, 5-10 September 2000.
- Karyotis, Th., A. Panagopoulos, N. Danalatos, D. Pateras, A. Panoras and C. Kosmas, 2001. Agricultural policy to reduce nitrate in the ground water of central Greece. *Proc. 2<sup>nd</sup> Intern. Workshop of the EU/INCO-DEV Concerted Action Programme: Enhancing Soil Fertility in Africa: From Field to Policy-Market*. Addis Ababa, Ethiopia, 12-15 March, pp. 87-90.
- Karyotis, Th., A. Panagopoulos, C. kosmas, D. Pateras, A. Panoras, N. Danalatos and N. Yassoglou, 2001. Guidelines for establishing a code for good agricultural practice in the river Pinios sedimentary basin, southern Greece. *Proceedings of the 12th World Fertilizer Congress*. August 3-9, Beijing, China, pp. 40-46.
- Karyotis, Th., A. Panagopoulos, P. Giannouloupoulos, D. Pateras, A. Panoras, N. Danalatos, A. Zymis, C. kosmas, 2001. Policy measures and agricultural practices against groundwater quality deterioration in the Argolida alluvial basin, southern Greece. *Proceedings of the 3th International Conference*, Lisbon, Portugal, June 2001, pp. 45-50.
- Sakellariou-Makrandonaki, N.G. Danalatos, S. Dassios and C. Chatzinikos, 2003. The effect of different irrigation methods on growth and productivity of fiber sorghum in central Greece. XXX IAHR Congress held in Thessaloniki, 25-31 August, pp. 777-784.
- Danalatos, N.G., and Archontoulis S.V., 2004. Potential growth and biomass productivity of kenaf under central Greek conditions: I. the influence of fertilization and irrigation. In: Van Swaalj, W.P.M., Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Biomass for Energy, Industry and Climate Protection*. Proc. 2<sup>nd</sup> World Biomass Conference, 10-14 May, Roma: 323- 326.
- Geronikolou L, Danalatos NG, Archontoulis SV, Kalavriotou P, Papadakis G, 2004. An experiment study of sunflower oil production in Greece to be used as an alternative fuel. In: Van Swaalj, W.P.M, Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Proceedings of the 2nd World Biomass Conference*, 10–14 May, Roma, Italy, p 612–615.
- Danalatos NG, Archontoulis SV, Geronikolou L, Papadakis G, 2004. Potential growth and productivity of three Sunflower hybrids in a soil with aquic moisture regime in central Greek conditions. In: Van Swaalj, W.P.M, Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Proceedings of the 2nd World Biomass Conference*, 10–14 May, Roma, Italy, p 315–318.
- Danalatos NG, Archontoulis SV, 2004. Influence of plant density and N-Fertilization on the growth and biomass productivity of *Miscanthus sinensis* under central Greek conditions. In: Van Swaalj, W.P.M., Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Proceedings of the 2<sup>nd</sup> World Biomass Conference*, 10–14 May, Roma, Italy, p 327–330.
- Danalatos NG, Archontoulis SV, 2004. Potential growth and biomass productivity of kenaf under central Greek conditions: I. the influence of fertilization and irrigation. In: Van Swaalj, W.P.M., Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Proceedings of the 2nd World Biomass Conference*, 10–14 May, Roma, Italy, p 323–326.
- Danalatos NG, Archontoulis SV, 2004. Potential growth and biomass productivity of kenaf under central Greek conditions: II. the influence of variety, sowing time and plant density. In: Van Swaalj, W.P.M., Fjalistrom, T., Helm, P., Grassi, A. (Ed.), *Proceedings of the 2<sup>nd</sup> World Biomass Conference*, 10–14 May, Roma, Italy, p 319–322.
- Danalatos, N.G., S.V. Archontoulis, L. Geronikolou and G. Papadakis, 2004. Biomass and seed yield of sunflower as alternative energy crop in Greece. 14th European Biomass Conference and Exhibition: Biomass for Energy, Industry and Climate Protection. Palais des Conges, Paris, France, 17-21 October 2005, p. 308-311.

- Danalatos, N.G., S.V. Archontoulis, L. Geronikolou and G. Papadakis, 2005. Irrigation and N-fertilization effects on growth and productivity of three sunflower hybrids in an aquic soil in central Greece. In: M.J Pascual-Villalobos, F.S. Nakayama, C.A. Bailey, E. Correal and W.W. Schloman, Jr. Proceeding of 2005 Annual Meeting of the Association for Advancement of 10 Industrial Crops: International Conference on Industrial Crops and Rural Development 17-21 September 2005, Murcia, Spain, pp 129-138.
- Danalatos, N.G. and S.V. Archontoulis, 2005. Irrigation and N-fertilization effects on Kenaf growth and biomass productivity in central Greece. In: M.J Pascual-Villalobos, F.S. Nakayama, C.A. Bailey, E. Correal and W.W. Schloman, Jr. Proceeding of 2005 Annual Meeting of the Association for Advancement of Industrial Crops: International Conference on Industrial Crops and Rural Development 17-21 September 2005, Murcia, Spain, pp 879-888.
- Danalatos, N.G. and S.V. Archontoulis, 2005. Sowing time and plant density effects on growth and biomass productivity of two Kenaf varieties in central Greece. In: M.J Pascual-Villalobos, F.S. Nakayama, C.A. Bailey, E. Correal and W.W. Schloman, Jr. Proceeding of 2005 Annual Meeting of the Association for Advancement of Industrial Crops: International Conference on Industrial Crops and Rural Development 17-21 September 2005, Murcia, Spain, pp 889-901.
- Danalatos, N.G., I.K. Mitsios and S.V. Archontoulis, 2005. Growth and biomass productivity of Kenaf as biomass crop in Greece. 14th European Biomass Conference and Exhibition: Biomass for Energy, Industry and Climate Protection. Palais des Conges, Paris, France, 17-21 October 2005, p. 272-275.
- Archontoulis, S.V., P.C. Struik, and Danalatos, N.G., 2005. Leaf photosynthesis of kenaf (cv. Everglades 41) as affected by different light intensity and temperature regimes. 14th European Biomass Conference and Exhibition: Biomass for Energy, Industry and Climate Protection. Palais des Conges, Paris, France, 17-21, October 2005, p. 414-417.
- Geronikolou, L., Papadakis, G., Danalatos, N.G., Archontoulis, S.V., and S. Kyritsis, 2005. Economic Opportunity for Seed Oil Production in S. Europe by New Sunflower Varieties and under New C.A.P. Conditions. 14th Eur. Biomass Conf. & Exhibition: Biomass for Energy, Industry and Climate Protection. Palais des Conges, Paris, 17-21 October 2005: 1917-1920.
- Alexopoulou, E., Christou, M., Cosentino, S.L., Danalatos, N.G., Archontoulis, S.V., Veccheit, M., Picco, D., Venturi, G., Virgillo, N., Fernando, A.L., Tenorio, J.L., Gonzalez, J., Gosse, G., Lips, S., van Berg, D., and R. Heaton., 2005. Biokenaf, A European Network for Biomass Production Chain of Kenaf. 14th European Biomass Conference and Exhibition: Biomass for Energy, Industry and Climate Protection. Palais des Conges, Paris, 17-21 Oct. 2005: 290-293.
- Danalatos NG, Archontoulis SV, Giannoulis K, Rozakis S, 2006. Miscanthus and Cardoon as alternative crops for solid fuel production in central Greece. In: Proceedings of the International Conference on Information Systems, Sustainable Agriculture, Agroenvironment and Food Technology, Volos, Greece, September 20–23, p. 387–397.
- Danalatos NG, Gintsioudis II, Archontoulis SV, 2006. Biokenaf: A Crop Growth Dynamic Simulation Model For Kenaf Under Greek Conditions. In: Proceedings of the International Conference on Information Systems, Sustainable Agriculture, Agro-environment and Food Technology, Volos, Greece, September 20–23, p. 373–381.
- Danalatos NG, Gintsioudis II, Skoufogianni E, Giannoulis K, Chatzidimopoulos M, Gournizakis G, Alexopoulou E, Archontoulis SV, 2006. Three Years Kenaf Cultivation in Central Greece: Assessment And Future Perspectives. In: Proceedings of the International Conference on Information Systems, Sustainable Agriculture, Agro-environment and Food Technology, Volos, Greece, September 20–23, p. 382–386.
- Archontoulis SV, Struik PC, Danalatos NG, 2006. Diurnal leaf gas exchange patterns of two kenaf genotypes at two leaf positions. In: Proceedings of the International Conference on Information Systems, Sustainable Agriculture, Agro-environment and Food Technology, Volos, Greece, September 20–23, p. 423–431.

- Archontoulis SV, Struik PC, Danalatos NG, 2006. Kenaf dark respiration as affected by temperature and leaf position. In: Proceedings of the International Conference on Information Systems, Sustainable Agriculture, Agro-environment and Food Technology, Volos, Greece, September 20–23, p. 415–422.
- Danalatos NG, Skoufogianni E, Giannoulis K, Archontoulis SV, 2007. Responses of *Cynara Cardunculus* to irrigation and N-fertilization in central Greece. In: Proceedings of the 15<sup>th</sup> European Biomass Conference, Berlin, Germany, p. 421–424.
- Danalatos NG, Gintsiodis II, Archontoulis SV, 2007. BIOKENAF: A Crop Growth Simulation Model for Kenaf. Part I: Model structure and model application. In: Proceedings of the 15th European Biomass Conference, Berlin, Germany, p. 425–428.
- Gintsiodis II, Danalatos NG, Archontoulis SV, 2007. BIOKENAF: A Crop Growth Simulation Model for Kenaf. Part II: Model calibration and validation under European conditions. In: Proc. 15th European Biomass Conference, Berlin, Germany, p. 429–432.
- Danalatos NG, Tsibukas K, Archontoulis SV, Giannoulis K, Rozakis S, 2007. Miscanthus and Cardoon as alternative energy crop for solid fuel production under new CAP conditions in Greece. In: Proc. 15th European Biomass Conference, Berlin, Germany, p. 417–420.
- Archontoulis SV, Danalatos NG, Struik PC, Tsalikis D, 2007. Irrigation and N-fertilization effects on the growth and productivity of sunflower in an aquic soil in central Greece. In: Proceedings of the 15th European Biomass Conference, Berlin, Germany, p. 413–416.
- Archontoulis SV, Danalatos NG, Struik PC, 2007. Irrigation effects on the growth and biomass productivity of two kenaf genotypes on aquic soils of central Greece. In: Proceedings of the 15th European Biomass Conference, Berlin, Germany, p. 409–412.
- Danalatos NG, Archontoulis SV, Dimitriadou MM, 2008. Potential growth and biomass productivity of sweet and fiber sorghum as affected by irrigation application in central Greece. In: Proceedings of the International Conference on Agric. Engineering, Crete, Greece (p. 7).
- Archontoulis SV, Danalatos NG, Yin Y, Struik PC, 2008. Leaf photosynthesis and respiration of *Cynara cardunculus*. In: Proceedings of the 16th European Biomass Conference, Valencia, Spain, p. 636–639.
- Archontoulis SV, Danalatos NG, Struik PC, Vos J, Yin X, 2008. Agronomy of *Cynara cardunculus* growing in an aquic soil in central Greece. In: Proceedings of the International Conference on Agricultural Engineering, Crete, Greece. Abstract in p. 42; full paper 15 pp on CD.
- Giannoulis KD, Archontoulis SV, Bastiaans L, Struik PC, Danalatos NG, 2008. Potential growth and seed yield of sunflower as affected by sowing time, irrigation and N-fertilization in central Greece. In: Proceedings of the International Conference on Agricultural Engineering, Crete, Greece (p. 10).
- Skoufogianni, E., D.I. Bartzialis and N.G. Danalatos, 2008. The Influence of Cover Crops (*Pisum Sativum*) on Biomass Productivity of Maize and Sunflower in Central Greece. International conference on Agricultural Engineering and Industry Exhibition held in Hersonissos, Crete, Greece, June, 2008 (in press).
- Bartzialis, D.I., P.E. Fitis, E. Skoufogianni and N.G. Danalatos, 2008. Ultra Narrow Row Spacing for Effective, Low-Input Cotton Cropping In Central Greece. International Conference on Agricultural Engineering and Industry Exhibition held in Hersonissos, Crete, Greece, June, 2008 (in press).
- Tertyllianos Mitsis, Panagiotis Efthimiadis and Nicholas G. Danalatos, 2008. Chemical Desiccation Of Oilseed Rape For Maximizing Yield During Harvesting. International Conference on Agricultural Engineering and Industry Exhibition held in Hersonissos, Crete, Greece, June, 2008 (in press).
- Nicholas G. Danalatos, 2008. Changing Roles: Cultivating Perennial Weeds vs. Conventional Crops for Bio-energy Production. The Case of *Cynara cardunculus*. CSI Cleantech 2008, June 1-5, Hynes Convention Center, Boston, Massachusetts, 4 pp, (in press).

- Danalatos NG, Archontoulis SV, Giannoulis KD, Pasxonis K, Tsalikis D, Pazaras V, Papadoulis N, Zaitoudis D, 2008. Cynara, sunflower, sweet and fiber sorghum on-farm yields in north, central and south Greece in 2007. In: Proceedings of the International Conference on Agricultural Engineering, Crete, Greece (p. 13).
- Danalatos NG, Gintsioudis II, Archontoulis SV, 2008. Evaluation and application of the biokenaf model for kenaf production in south Europe. In: Proceedings of the International Conference on Agricultural Engineering, Crete, Greece (p. 8).
- Archontoulis SV, Danalatos NG, Struik PC, 2009. Determination of Cynara cardunculus seed yield and harvest index. In: Proceedings of the 17th European Biomass Conferences, Hamburg, Germany, p. 557–561.
- Danalatos NG, Archontoulis SV, 2009. Oilseed rape growth, biomass accumulation and seed yield as affected by variety and N-fertilization in a dry year central Greece. In: Proceedings of the 17th European Biomass Conference, Hamburg, Germany, p. 507–511.
- Danalatos NG, Archontoulis SV, 2009. Pilot scale agronomical results on Cynara, Sunflower and fiber and sweet Sorghum in three different sites in Greece. In: Proceedings of the 17th European Biomass Conference, Hamburg, Germany, p. 531–537.
- Danalatos NG, Archontoulis SV, Tsibukas K, 2009. Comparative analysis of sorghum vs. corn growing under optimum and water/nitrogen limited conditions in central Greece. In: Proceedings of the 17th European Biomass Conference, Hamburg, Germany, p. 538–544.
- Giannoulis KD, Archontoulis SV, Bastiaans L, Struik PC, Danalatos NG, 2009. Performance of cropping systems including sunflower as mono-crop vs. in intensive rotation with winter wheat in central Greek plains. In: Proceedings of the 17th European Biomass Conference, Hamburg, Germany, p. 545–548.
- Archontoulis SV, Struik PC, Vos J, Danalatos NG, 2010. Maize and sorghum biomass and protein accumulation under adequate and limited supply of water and nitrogen in Greece. In: Proceedings of the 11th European Conference of Agronomy, Monepellier, France, p. 569-570.
- Archontoulis SV, Struik PC, Yin X, Vos J, Bastiaans L, Danalatos NG, 2010. An easy and fast method to estimate Cynara cardunculus seed yield based on head weight and number. In: Proceedings of the 18th European Biomass Conference, Lyon, France, p. 487–493.
- Archontoulis SV, Danalatos NG, Struik PC, Batzogiannis D, Savas V, 2010. The effect of nitrogen fertilization and supplemental irrigation on seed and biomass productivity of Cynara cardunculus growing in a semi-arid environment in central Greece. In: Proceedings of the 18th European Biomass Conference, Lyon, France p. 273–279.
- Giannoulis, K.D., N. Danalatos, O. Ketikidou 2010. Cultivation cost and biomass productivity of *Switchgrass* (cv. Alamo) in central Greece. 18th European Biomass Conference & Exhibition From Research to Market Deployment, International Congress Center, Lyon, France 03 - 07 May 2010.
- Giannoulis, K.D., A. Molla, A. Maroulis, A. Dimirkou, N. Danalatos, 2010. The effect of Sunflower "*Helianthus annuus*" cultivation to soil quality improvement. 6<sup>th</sup> International conference on BIOMASS FOR ENERGY, Kyiv, Ukraine, September 2010.
- Archontoulis SV, Struik PC, Danalatos NG, 2011. A comparative analysis of biomass production from seven energy crop species grown in a Mediterranean environment. In: Proceedings of the 19th European Biomass Conference, 6–10 June, Berlin, Germany (in press).
- Bartzialis D, Archontoulis SV, Tziamali P, Danalatos NG, 2011. N-loss enhanced by removal of crop residues from cotton, maize and tomato fields for biofuel production. In: Proceedings of the 19th European Biomass Conference, 6–10 June, Berlin, Germany (in press).
- Tsitsibikou N, Dichala O, Bartzialis D, Archontoulis SV, Tzortzios S, Danalatos NG, Struik PC, 2011. Sorghum and maize biomass, protein, and bioethanol yields in a semi-arid environment of central Greece. In: Proceedings of the 19th European Biomass Conference, 6–10 June, Berlin, Germany (in press).

- Giannoulis, K.D., A. Molla, A. Dimirkou, N. Danalatos, 2011. The effect of Zeolite Bentonite mix to soil quality improvement of different soil types. 6<sup>th</sup> International Congress, Thessaloniki, Greece, May 2011.
- Giannoulis, K.D., N.G. Danalatos and Sakellariou M., 2011. Switchgrass, Cardoon and Miscanthus, perennial crops as Alternatives for solid biofuel production in central Greece. 19th European Biomass Conference & Exhibition, Berlin, Germany, June 2011.
- Giannoulis, K.D., A. Molla, A. Dimirkou, N. Danalatos, 2011. Switchgrass as a promising biomass crop with soil improvement characteristics. 19th European Biomass Conference & Exhibition, Berlin, Germany, June 2011.
- Giannoulis, K.D., A. Molla, A. Dimirkou, T. Karyotis, N. Danalatos, 2011. N-NO<sub>3</sub> uptake by switchgrass and sunflower as a peat soil quality improvement index. 12<sup>th</sup> International Symposium on Soil and Plant Analysis, Chania, Crete, Greece, June 2011.
- Giannoulis, K.D., A. Molla, A. Dimirkou, T. Karyotis, N. Danalatos, 2011. The effect of zeolite-bentonite mixture on soil quality and crop productivity. 12<sup>th</sup> International Symposium on Soil and Plant Analysis, Chania, Crete, Greece, June 2011.