

CURRICULUM VITAE (2025)

THEODORA MATSI

PROFESSOR

PERSONAL DATA

Surname: Matsi

First Name: Theodora

Date and place of birth: 1961, Drama, Greece

Address: Soil Science Laboratory, School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, Aristotle University of Thessaloniki (AUTH), 54124, Thessaloniki, Greece, e-mail: thmatsi@agro.auth.gr

EDUCATION

Graduate studies: Degree in Chemistry, School of Chemistry, Faculty of Sciences, AUTH, 1985.

Postgraduate studies: PhD in Soil Science, School of Agriculture, Faculty of Geotechnical Sciences, AUTH, 1997. Thesis title: “Effect of application of fly ash, derived from lignite fired plants, on some soil physicochemical characteristics and on nutrient uptake by plants”.

RESEARCH INTERESTS

1. Use of industrial by-products as soil amendments.
2. Use of organic wastes as soil amendments.
3. Species, chemical behavior and distribution of microelements in soils.

PROFESSIONAL ACTIVITIES

TEACHING & RESEARCH

1. Teaching, “Chemistry”, Post-high school Preparatory Centers, 1986-1990.
2. Teaching assistant, “Soil Science” (laboratory classes), School of Agriculture, AUTH, 1991-1997.
3. Teaching assistant, “Geology-Petrography” and “Soil Pollution and Degradation”, School of Agriculture, AUTH, 1998-2000.
4. Teaching assistant, “Agricultural Chemistry” and “Soil Science”, Agricultural College of Thessaloniki, 1997-2004.
5. Researcher assistant, Soil Science Laboratory, School of Agriculture, AUTH, 1991-2000. Participation in **13** research projects.
6. Researcher, Land Reclamation Institute - National Agricultural Research Foundation (NAGREF), 2001-2004. Participation in **10** research projects.
7. Lecturer in Soil Science, Soil Science Laboratory, School of Agriculture, AUTH, 2005-2009. Teaching of “Soil Science”, “Soil Fertility”, “Soil Chemistry” and “Instrumental Chemical Analysis” undergraduate classes. Teaching of “Chemical Analysis of Soils, Irrigation Waters and Plant Tissues” postgraduate class. Supervision of **1** postgraduate student (**MSc**).
8. Assistant Professor in Soil Science, Soil Science Laboratory, School of Agriculture, AUTH, 2009-2015. Teaching: the same classes as a lecturer plus “Advanced Soil Chemistry” and “Food Analysis” postgraduate classes. Supervision of **3** postgraduate students (**2 MSc and 1 PhD**). Participation in **2** research projects.
9. Associate Professor in Soil Science, Soil Science Laboratory, School of Agriculture, AUTH, 2015-2019. Teaching: the same classes as assistant professor

- plus “General and Inorganic Chemistry” undergraduate class. Supervision of 7 postgraduate students (**5 MSc and 1 PhD**). Participation in 3 research projects.
10. Professor in Soil Science, Soil Science Laboratory, School of Agriculture, AUTH, 2019-today. Teaching of “General and Inorganic Chemistry”, “Soil Science”, “Soil Fertility” and “Soil Chemistry” undergraduate classes. Teaching of “Environmental Soil Chemistry” and “Integrated Soil Nutrient Management” postgraduate classes. Supervision of 4 postgraduate students (**2 MSc and 2 PhD**). Participation in 2 research projects.

DISTINCTIONS & OTHER ACTIVITIES

1. Scholarship from the Greek State Scholarships Foundation, for the preparation of the PhD thesis.
2. Distinction of the “2003 Editors’ Citation for Excellence in Manuscript Review” from the editors of the “Soil Science Society of America Journal”.
3. Reviewing Editor of the “Journal of Crop Improvement”, 2018.
4. Chairperson of the “Session 3: Sustainable management of wetlands and drylands” of the 6th International Congress of the European Society of Soil Conservation (ESSC). Thessaloniki-Greece, 9-14/5/2011.\
5. Member of the scientific committee and reviewer of the International Symposium on Efficient Irrigation Management, IRLA2014, the 9th, 11th and 16th National Congress of the Hellenic Soil Science Society, the 6th, 8th and 9th National Congress of the Hellenic Society of Agricultural Engineers and the 28th National Congress of the Hellenic Society of Horticulture Science.
6. Reviewer at the Greek journal “Geotechnical Scientific Issues” (4 manuscripts).
7. Reviewer of **84** manuscripts submitted for publication in the journals: “Environmental Pollution” (6), “Advances in Environmental Research” (1), “Water Air and Soil Pollution” (1), “Soil Science Society of America Journal” (2), “Pedosphere” (6), “Desalination” (2), “Archives of Environmental Contamination and Toxicology” (1), “Crop Management” (1), “Land Degradation and Development” (3), “Journal of Agricultural Science” (18), “Agriculture, Ecosystems and Environment” (3), “Soil Use and Management” (1), “South African Journal of Plant and Soil” (1), “Soil and Sediment Contamination” (2), “Pakistan Journal of Scientific and Industrial Research” (1), “Environmental Science and Pollution Research” (2), “European Journal of Agronomy” (3), “Chemical Speciation and Bioavailability” (1), “Journal of Hazardous Materials” (1), “Soil and Tillage Research” (1), “Revista Brasileira de Ciencia do Solo” (1), “Journal of Crop Improvement” (4), “International Journal of Environmental Research” (1), “Communications in Soil Science and Plant Analysis” (1), “Agricultural Systems” (1), “Waste Management” (1), “Science of the Total Environment” (3), “Archives of Agronomy and Soil Science” (1), “Frontiers in Plant Science” (3), “Journal of Environmental Management” (2), “Journal of Soil Science and Plant Nutrition” (2), “Geoderma Regional” (1), “Scientific Reports” (2), “Heliyon” (2), “Environmental Technology and Innovation” (1), “Plant-Environment Interactions” (1).
8. Reviewer of the chapter “Micronutrients” by L.M. Shuman for the “Earth Systems and Environmental Science”.
9. Member of the Societies:
Greek Society of Chemists, since 1985.
Hellenic Soil Science Society, since 1997.
Soil Science Society of America, 2003-2020.

- American Society of Agronomy, 2011-2020.
Crop Science Society of America, 2013-2020.
10. Head of the Hydraulics, Soil Science and Agricultural Engineering Department, School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, AUTH, 2023-2027.
 11. Head of the Soil Science Laboratory, School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, AUTH, 2025-2027.

PUBLICATIONS

Total number of citations (self-citations of all authors are excluded): 1375 (Scopus & WoS)

h-index: 19 (Scopus & WoS)

1. **Matsi T.** 1997. Effect of application of fly ash, derived from lignite fired plants, on some soil physicochemical characteristics and on nutrient uptake by plants. PhD thesis. Soil Science Laboratory, School of Agriculture, AUTH. Thessaloniki, 127 p.

CHAPTERS IN BOOKS

2. Participation with professor of AUTH V.Z. Keramidas in the translation in Greek of 2 chapters (1st and 8th) of the book of “Brady N.C. and R.R. Weil. 2008. The Nature and Properties of Soils. 14th edition. Pearson Prentice Hall, Upper Saddle River, NJ.”
3. **Matsi T.** and C. Tsadilas. 2005. Coal fly ash application to soils and its effect on boron availability to plants. pp. 3-23. In M.P.V. Prasad et al. (ed.) Trace Elements in the Environment: Biogeochemistry, Biotechnology and Bioremediation. CRC Press, Boca Raton.
4. **Matsi T.** 2012. Liquid cattle manure application to soil and its effect on crop growth, yield, composition and soil properties. pp. 97-119. In J. Whalen (ed.) Soil Fertility Improvement and Integrated Nutrient Management: A Global Perspective. INTECH, Rijeka.

Citations 8

5. Dionisiou N.S. and **T. Matsi.** 2016. Natural and surfactant-modified zeolite for the removal of pollutants (mainly inorganic) from natural waters and wastewaters. p. 591-606. In M.P.V. Prasad and K. Shih (ed.) Environmental Materials and Waste: Resource Recovery and Pollution Prevention. Elsevier Inc., London.

Citations 26

6. Nikoli T. and **T. Matsi.** 2018. Methods of Ni determination in soils and plants. p. 199-216. In C.D. Tsadilas et al. (ed.) Nickel in Soils and Plants. CRC Press, Boca Raton.

Citations 3

7. Dionisiou N.S. and **T. Matsi.** 2024. Natural and surfactant-modified zeolite for the removal of pollutants (mainly inorganic) from natural waters and wastewaters. pp. 545-570. In M. Narasimha and V. Prasad (ed.) Environmental Materials and Waste: Circular Economy and Pollution Abatement. 2nd edition. Elsevier Inc., London.

JOURNALS

GREEK JOURNALS

8. Panoras A., G. Arampatzis, E. Hatzigiannakis, A. Ilias, A. Panagopoulos, I. Teloglou, **T. Matsi**, M. Melitsi, A. Pratanopoulos and E. Polizonis. 2005. Suitability assessment of Pella's prefecture water resources for agricultural use. *Geotechnical Scientific Issues-Series IV* 16(2): 61-73.

INTERNATIONAL JOURNALS (Scopus & WoS)

9. Tsadilas C.D., **T. Matsi**, N. Barbayiannis and D. Dimoyiannis. 1995. Influence of sewage sludge application on soil properties and on the distribution and availability of heavy metal fractions. *Communications in Soil Science and Plant Analysis* 26(15-16): 2603-2619. **(IF 1.3)**
DOI 10.1080/00103629509369471

Citations 144

10. Veresoglou D.S., N. Barbayiannis, **T. Matsi**, C. Anagnostopoulos and G.C. Zalidis. 1996. Shoot Sr concentrations in relation to shoot Ca concentrations and to soil properties. *Plant and Soil* 178(1): 95-100. **(IF 3.9)**
DOI 10.1007/BF00011167

Citations 33

11. Pritsa T.S., D.G. Voyiatzis and **T.A. Matsi**. 1997. The buffering effect of olive embryos on the pH of the substrate, during their *in vitro* germination. *Acta Horticulturae* 474: 71-74. **(IF 0.3)**
DOI: 10.17660/ActaHortic.1999.474.10
12. Zalidis G., N. Barbayiannis and **T. Matsi**. 1999. Forms and distribution of heavy metals in soils of the Axios delta of northern Greece. *Communications in Soil Science and Plant Analysis* 30(5-6): 817-827. **(IF 1.3)**
DOI 10.1080/00103629909370248

Citations 26

13. **Matsi T.** and V.Z. Keramidas. 1999. Fly ash application on two acid soils and its effect on soil salinity, pH, B and P and on ryegrass growth and composition. *Environmental Pollution* 104(1): 107-112. **(IF 7.6)**
DOI 10.1016/S0269-7491(98)00145-6

Citations 139

14. **Matsi T.**, V. Antoniadis and N. Barbayiannis. 2000. Evaluation of the NH_4HCO_3 -DTPA soil test for assessing boron availability to wheat. *Communications in Soil Science and Plant Analysis* 31(5-6): 669-678. **(IF 1.3)**
DOI 10.1080/00103620009370468

Citations 13

15. **Matsi T.** and V.Z. Keramidas. 2001. Alkaline fly ash effects on boron sorption and desorption in soils. *Soil Science Society of America Journal* 65(4): 1101-1108. **(IF 2.4)**
DOI 10.2136/sssaj2001.6541101x

Citations 10

16. Tsialtas J.T., **T. Matsi**, N. Barbayiannis, A. Sdrakas and D. Veressoglou. 2003. Strontium absorption by two *Trifolium* species as influenced by soil characteristics and liming. *Water Air and Soil Pollution* 144(1): 363-373. **(IF 3.8)**
DOI 10.1023/A:1022965100636

Citations 19

17. **Matsi T.**, A.S. Lithourgidis and A.A. Gatzianas. 2003. Effects of injected liquid cattle manure on growth and yield of winter wheat and soil characteristics. *Agronomy Journal* 95(3): 592-596. **(IF 2.0)**
DOI 10.2134/agronj2003.5920

Citations 97

18. Pritsa T.S., D.G. Voyiatzis and **T. Matsi**. 2004. Viable olive embryos can change the pH and the ionic composition of the medium during their *in vitro* germination. *Journal of Horticultural Science and Biotechnology* 79(4): 591-595. **(IF 1.7)**
DOI 10.1080/14620316.2004.11511811
19. **Matsi T.**, N. Maslaris and N. Barbayiannis. 2005. Micronutrient levels in sugar beet and soils of Greece. *Journal of Plant Nutrition* 28(12): 2093-2099. **(IF 1.6)**
DOI 10.1080/01904160500320913

Citations 3

20. Dionisiou N., **T. Matsi**, and N.D. Misopolinos. 2006. Use of magnesia for boron removal from irrigation water. *Journal of Environmental Quality* 35(6): 2222-2228. **(IF 2.2)**
DOI 10.2134/jeq2006.0093

Citations 18

21. Pirintsos S.A., **T. Matsi**, D. Vokou, C. Gaggi and S. Loppi. 2006. Vertical distribution patterns of trace elements in an urban environment as reflected by their accumulation in lichen transplants. *Journal of Atmospheric Chemistry* 54(2): 121-131. **(IF 3.0)**
DOI 10.1007/s10874-006-9019-9

Citations 17

22. Ulmanu M., **T. Matsi**, I. Anger, E. Gament, G. Olanescu, C. Predescu and M. Sohaciu. 2007. The remedial treatment of soil polluted with heavy metals using fly ash. *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 69(2): 109-116. **(IF 0.3)**

Citations 12

23. **Matsi T.**, E.G. Hatzigiannakis, G.K. Arampatzis and A.G. Panorass. 2007. Available Cd Content of salt-affected and normal soils of Halastra-Kalohori area. *Global NEST Journal* 9(3): 195-200. **(IF 1.0)**
DOI 10.30955/gnj.000459

Citations 4

24. Lithourgidis A.S., **T. Matsi**, N. Barbayiannis and C.A. Dordas. 2007. Effect of liquid cattle manure on corn yield, composition and soil properties. *Agronomy Journal* 99(4): 1041-1047. **(IF 2.0)**
DOI 10.2134/agronj2006.0332

Citations 59

25. Dordas C.A., A.S. Lithourgidis, **T. Matsi** and N. Barbayiannis. 2008. Application of liquid cattle manure and inorganic fertilizers affect dry matter, nitrogen accumulation and partitioning in maize. *Nutrient Cycling in Agroecosystems* 80(3): 283-296. **(IF 2.4)**
DOI 10.1007/s10705-007-9143-1

Citations 89

26. Tsialtas J.T., **T. Matsi** and N. Maslaris. 2010. Plasticity of leaf anatomy, chemistry and water economy of irrigated sugar beets grown under Mediterranean conditions. *International Journal of Plant Production* 4(2): 99-114. **(IF 2.1)**
DOI 10.22069/IJPP.2012.687

Citations 1

27. Nikoli T. and **T. Matsi**. 2011. Influence of liquid cattle manure on micronutrients content and uptake by corn and their availability in a calcareous soil. *Agronomy Journal* 103(1): 113-118. **(IF 2.0)**
DOI 10.2134/agronj2010.0273

Citations 38

28. Samourgiannidis G. and **T. Matsi**. 2013. Comparison of two sequential extraction methods and the DTPA method for the extraction of micronutrients from acidic soils. *Communications in Soil Science and Plant Analysis* 44(1-4): 38-49. **(IF 1.3)**
DOI 10.1080/00103624.2012.734030

Citations 6

29. Dionisiou N.S., **T. Matsi** and N.D. Misopolinos. 2013. Phosphorus adsorption-desorption on a surfactant-modified natural zeolite: A laboratory study. *Water Air and Soil Pollution* 224: 1362. **(IF 3.8)**
DOI 10.1007/s11270-012-1362-7

Citations 31

30. Dionisiou N.S., **T. Matsi** and N.D. Misopolinos. 2013. Removal of boron by surfactant modified zeolitic tuff from Northeastern Greece. *Journal of Agricultural Science* 5(12): 94-99. **(IF 0.3)**
DOI 10.5539/jas.v5n12p94

Citations 7

31. Zoukidis K. and **T. Matsi**. 2014. Use of boron laden magnesia as an amendment for acid soils. *Soil Science* 179: 51-55. **(IF 1.7)**
DOI 10.1097/SS.0000000000000037

Citations 1

32. Nikoli T. and **T. Matsi**. 2014. Evaluation of certain Ni soil tests for an initial estimation of Ni sufficiency critical levels. *Journal of Plant Nutrition and Soil Science* 177: 596-603. **(IF 2.5)**
DOI 10.1002/jpln.201300558

Citations 4

33. **Matsi T.**, A.S. Lithourgidis and N. Barbayiannis. 2015. Effect of liquid cattle manure on soil chemical properties and corn growth in northern Greece. *Experimental Agriculture* 51(3): 435-450. **(IF 1.6)**
DOI 10.1017/S0014479714000404

Citations 11

34. Ainalidou A., K. Karamanoli, U. Menkissoglu-Spiroudi, G. Diamantidis and **T. Matsi**. 2015. CPPU treatment and pollination: Their combined effect on kiwifruit growth and quality. *Scientia Horticulturae* 193: 147-154. **(IF 3.9)**
DOI 10.1016/j.scienta.2015.07.011

Citations 36

35. Mellidou I., P.N. Moschou, N.E. Ioannidis, C. Pankou, K. Gemes, C. Valassakis, E.A. Andronis, D. Beris, K. Haralampidis, A. Roussis, A. Karamanoli, **T. Matsi**, K. Kotzabasis, H.I. Constantinidou and K.A. Roubelakis-Angelakis. 2016. Silencing s-adenosyl-l-methionine decarboxylase (SAMDC) in *Nicotiana tabacum* points at a polyamine-dependent trade-off between growth and tolerance responses. *Frontiers in Plant Science* 7: 379. **(IF 4.1)**
DOI 10.3389/fpls.2016.00379

Citations 28

36. Tsialtas J.T., S. Shabala and **T. Matsi**. 2016. A prominent role for leaf calcium

as a yield and quality determinant in upland cotton (*Gossypium hirsutum* L.) varieties grown under irrigated Mediterranean conditions. Journal of Agronomy and Crop Science 202: 161-173. (IF 3.5)
DOI 10.1111/jac.12126

Citations 4

37. Tsialtas I.T., S. Shabala, D. Baxevanos and **T. Matsi**. 2016. Effect of potassium fertilization on leaf physiology, fiber yield and quality in cotton (*Gossypium hirsutum* L.) under irrigated Mediterranean conditions. Field Crops Research 193: 94-103. (IF 5.6)
DOI 10.1016/j.fcr.2016.03.010

Citations 44

38. Nikoli T., **T. Matsi** and N. Barbayiannis. 2016. Assessment of nickel's sufficiency critical levels in cultivated soils, employing commonly used calibration techniques. Journal of Plant Nutrition and Soil Science 179: 566-573 (IF 2.5)
DOI 10.1002/jpln.201600173

Citations 5

39. Tsialtas I.T., S. Shabala, D. Baxevanos and **T. Matsi**. 2017. Cation selectivity in cotton (*Gossypium hirsutum* L.) grown on calcareous soil as affected by potassium fertilization, cultivar and growth stage. Plant and Soil 415: 331-346. (IF 3.9)
DOI 10.1007/s11104-016-3164-y

Citations 12

40. Gemes K., I. Mellidou, K. Karamanoli, D. Beris, K.Y. Park, **T. Matsi**, K. Haralampidis, H.I. Constantinidou and K.A. Roubelakis-Angelakis. 2017. Deregulation of apoplastic polyamine oxidase affects development and salt response of tobacco plants. Journal of Plant Physiology 211: 1-12. (IF 4.0)
DOI 10.1016/j.jplph.2016.12.012

Citations 25

41. Michailidis M., E. Karagiannis, G. Tanou, K. Karamanoli, A. Lazaridou, **T. Matsi** and A. Molassiotis. 2017. Metabolomic and physico-chemical approach unravel dynamic regulation of calcium in sweet cherry fruit physiology. Plant Physiology and Biochemistry 116: 68-79. (IF 6.1)
DOI 10.1016/j.plaphy.2017.05.005

Citations 59

42. Tsialtas I.T., A.N. Papantoniou, **T. Matsi** and D.K. Papakosta. 2017. Leaf gas exchange physiology and ion homeostasis of oilseed rape (*Brassica napus* L.) under Mediterranean conditions: Associations with seed yield and quality. Agriculture, Ecosystems and Environment 247: 225-235. (IF 6.0)
DOI 10.1016/j.agee.2017.06.036

Citations 2

43. Samara E., **T. Matsi** and A. Balidakis. 2017. Soil application of sewage sludge stabilized with steelmaking slag and its effect on soil properties and wheat growth. Waste Management 68: 378-387. (IF 7.1)
DOI 10.1016/j.wasman.2017.06.016

Citations 41

44. Samara E., **T. Matsi**, A. Zdragas and N. Barbayiannis. 2019. Use of clay minerals for sewage sludge stabilization and a preliminary assessment of the treated sludge's fertilization capacity. Environmental Science and Pollution Research 26(35): 35387-35398. (IF 5.8)

DOI 10.1007/s11356-019-05132-y

Citations 13

45. Samara E., **T. Matsi**, N. Barbayiannis and A.S. Lithourgidis. 2020. Liquid cattle manure effect on corn yield and nutrients' uptake and soil fertility, in comparison to the common and recommended inorganic fertilization. *Journal of Soil Science and Plant Nutrition* 20(4): 2283-2293. **(IF 3.4)**

DOI 10.1007/s42729-020-00294-y

Citations 6

46. Balidakis A. and **T. Matsi**. 2020. Boron adsorption-desorption by steelmaking slag for boron removal from irrigation waters. *Water Air and Soil Pollution* 231: 383. **(IF 3.8)**

DOI 10.1007/s11270-020-04779-5

Citations 4

47. Leontidou K., S. Genitsaris, A. Papadopoulou, N. Kamou, I. Bosmali, **T. Matsi**, P. Madesis, D. Vokou, K. Karamanoli and I. Mellidou. 2020. Plant growth promoting rhizobacteria isolated from halophytes and drought-tolerant plants: Genomic characterisation and exploration of phyto-beneficial traits. *Scientific Reports* 10:14857. **(IF 3.8)**

DOI 10.1038/s41598-020-71652-0

Citations 141

48. Genitsaris S., N. Stefanidou, K. Leontidou, **T. Matsi**, K. Karamanoli and I. Mellidou. 2020. Bacterial communities in the rhizosphere and phyllosphere of halophytes and drought-tolerant plants in Mediterranean ecosystems. *Microorganisms* 8: 1708. **(IF 4.1)**

DOI 10.3390/microorganisms8111708

Citations 25

49. Ziogas M., I. Ipsilantis, **T. Matsi** and S. Kostopoulou. 2021. Long-term fertilization of with liquid cattle manure leaves legacy nutrients, but not organic carbon and has no effect on soil microbial and physical properties a year after last application. *Communications in Soil Science and Plant Analysis* 52(11): 1264-1274. **(IF 1.3)**

DOI 10.1080/00103624.2021.1879124

Citations 10

50. Krigas N., C. Lykas, I. Ipsilantis, **T. Matsi**, S. Weststrand, M. Havstrom and G. Tsoktouridis. 2021. Greek Tulips: Worldwide electronic trade over the internet, global ex situ conservation and current sustainable exploitation challenges. *Plants* 10: 580. **(IF 4.0)**

DOI 10.3390/plants10030580

Citations 3

51. Paschalidis K., D. Fanourakis, G. Tsaniklidis, V. Tzanakakis, F. Biliadis, E. Samara, K. Kalogiannakis, F.J. Debouba, I. Ipsilantis, G. Tsoktouridis, **T. Matsi** and N. Krigas. 2021. Pilot cultivation of the vulnerable Cretan endemic *Verbascum arcturus* L. (Scrophulariaceae): Effect of fertilization on growth and quality features. *Sustainability* 13:14030. **(IF 3.3)**

DOI 10.3390/su132414030

Citations 13

52. Fanourakis D., K. Paschalidis, G. Tsaniklidis, V.A. Tzanakakis, F. Biliadis, E. Samara, E. Liapaki, M. Jouini, I. Ipsilantis, E. Maloupa, G. Tsoktouridis, **T. Matsi** and N. Krigas. 2022. Pilot cultivation of the local endemic Cretan marjoram *Origanum microrlyllum* (Benth.) Vogel (Lamiaceae): Effect of

fertilizers on growth and herbal quality features. *Agronomy* 12: 94. **(IF 3.3)**
DOI 10.3390/agronomy12010094

Citations 5

53. Papadopoulou A., **T. Matsi**, N. Kamou, D. Avdouli, I. Mellidou and K. Karamanoli. 2022. Decoding the potential of a new *Pseudomonas putida* strain for inducing drought tolerance of tomato (*Solanum lycopersicum*) plants through seed biopriming. *Journal of Plant Physiology* 271: 153658. **(IF 4.0)**
DOI 10.1016/j.jplph.2022.153658

Citations 22

54. Balidakis A., **T. Matsi**, A.-G. Karagianni and I. Ipsilantis. 2022. Soil application of sewage sludge treated with clay minerals or biochar and its effect on soil properties and white clover's (*Trifolium repens* L.) growth and arbuscular mycorrhizal fungal root colonization. *Applied Sciences* 12: 11382. **(IF 2.5)**
DOI 10.3390/app122211382

Citations 1

55. Samara E., **T. Matsi**, I. Ipsilantis and N. Barbayiannis. 2023. Sewage sludge stabilized with clay minerals: Its impact on soil properties and ryegrass growth. *Journal of Soil Science and Plant Nutrition* 23(1): 556-568. **(IF 3.4)**
DOI 10.1007/s42729-022-01065-7

Citations 3

56. Biliass F., A.-G. Karagianni, I. Ipsilantis, I. Samartza, N. Krigas, G. Tsoktouridis and **T. Matsi**. 2023. Adaptability of wild-growing tulips of Greece: Uncovering relationships between soil properties, rhizosphere fungal morphotypes and nutrient content profiles. *Biology* 12: 605. **(IF 3.6)**
DOI 10.3390/biology12040605

Citations 7

57. Biliass F., I. Ipsilantis, E., Samara, G. Tsoktouridis, E. Glavakis, K. Grigoriadou, N. Krigas and **T. Matsi**. 2023. From the wild to the field: Effect of foliar or soil application of inorganic or semi-organic fertilizers on various parameters of local endemic plant species of Crete (Greece). *Brazilian Journal of Botany* 46: 319-336. **(IF 1.4)**
DOI 10.1007/s40415-023-00888-7

Citations 4

58. Balidakis A., **T. Matsi**, A.-G. Karagianni and I. Ipsilantis. 2023. Sewage sludge treated with bentonite, vermiculite or biochar can improve soil properties and enhance growth of grasses. *Soil Use and Management* 39: 1403-1421. **(IF 5.0)**
DOI 10.1111/sum.12931

Citations 11

59. Karagianni A.-G., A. Balidakis, I. Ipsilantis and **T. Matsi**. 2023. Effects of applying sewage sludge treated with amendments on soil chemical properties. *Communications in Soil Science and Plant Analysis* 55(6): 814-827. **(IF 1.3)**
DOI 10.1080/00103624.2023.2282989

Citations 1

60. Balidakis A., **T. Matsi**, I. Ipsilantis and D. Kalderis. 2024. Evaluation of selective clay minerals and biochar as materials for sewage sludge stabilization. *International Journal of Environmental Science and Technology* 21: 5795-5808. **(IF 3.0)**
DOI 10.1007/s13762-023-05390-x
61. Paschalidis K., D. Fanourakis, G. Tsaniklidis, V.A. Tzanakakis, I. Kardamaki, M. Kokotakis, F. Biliass, E. Samara, I. Ipsilantis, K. Grigoriadou, **T. Matsi**, G.

Tsoktouridis and N. Krigas. 2024. A polysaccharide-based integrated nutrient management system enhances the antioxidant properties in *Origanum dictamnus* (Lamiaceae), a valuable local endemic plant of Crete. *Polysaccharides* 5: 28-48. **(IF 4.7)**

DOI 10.3390/polysaccharides5010003

Citations 2

62. Paschalidis K., D. Fanourakis, G. Tsaniklidis, I. Tsihclas, V.A. Tzanakakis, F. Biliadis, E. Samara, I. Ipsilantis, K. Grigoriadou, I. Samartza, **T. Matsi**, G. Tsoktouridis and N. Krigas. 2024. DNA barcoding and fertilization strategies in *Sideritis syriaca* subsp. *syriaca*, a local endemic plant of Crete with high medical value. *International Journal of Molecular Sciences* 25: 1891. **(IF 4.9)**
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