
CURRICULUM VITAE

MARIA K. DOULA
Chemist



PERSONAL DETAILS

NAME: Maria K. Doula

SEX : Female

PLACE & DATE OF BIRTH: Athens, June 12, 1969

STATUS: Mother of twins

INSTITUTION: Benakeio Phytopathological Institute (BPI)

DEPARTMENT: Phytopathology, Lab of Non Parasitic Diseases

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EDUCATION

B.S. : 1993, National Kapodistrian University of Athens, School of Chemistry.

M.Sc. : 1997, National Kapodistrian University of Athens, School of Chemistry, Department of Industrial Chemistry.

Title: Adsorption of Copper and desorption of Ca, Mg, Mn, Zn from kaolinite.

Ph.D. : 2003, National Kapodistrian University of Athens, School of Chemistry, Department of Industrial Chemistry.

Title: Heavy metals adsorption by inorganic polymers (zeolites).

Today : Postgraduate Student (Waste Management), Greek Open University

LANGUAGES

Greek, English, German

PROFESSIONAL and RESEARCH EXPERIENCE

Post occupied

- October 2014-today: Benaki Phytopathological Institute (BPI)
- 1993-October 2014: Hellenic Agricultural Organization DEMETER-Soil Science Institute of Athens.

Main activities, responsibilities and research experience

- Associate Researcher and Head of the Laboratory of Non Parasitic Diseases, Department of Phytopathology, BPI
- Quality Manager for the BPI according to ISO 9001:2008 for Management of co-financed operations with no technical content (supplies, services, etc).
- Quality Manager for SSIA according to ISO 17025 for the accredited soil analysis laboratory (until October 2014).

Interests

- Waste management, composting, waste reuse in agricultural sector
- Soil protection and remediation, soil contamination, movement and adsorption of heavy metals and nutrients, soil management
- Sustainable agriculture, Mediterranean agriculture and sustainability
- Desertification in Mediterranean, adaptation measures
- EU policy: wastes, soil, water
- Soil/water/plant analysis, water-softening methods, analysis, water contamination and purification and softening using natural ion-exchangers
- Physicochemical properties of natural zeolites, clay minerals and Fe/Al oxides, synthesis/modification of silicate substrates to achieve high adsorption capacity.
- Adsorption/desorption of heavy metals and nutrients on different soil types; clay minerals; Fe/Al oxides; natural zeolites. Processes modelling
- Quality systems as being Quality Manager of Quality Manager of the Chemical Laboratory of SSIA according to ISO 17025.
- Instrumental analysis (AA-flame/furnace, ICP, Ionic chromatography, FT-IR, UV/Vis, Flame photometer, TOC, BOD, COD).

Projects

- Coordinator of the project entitled “Strategies to improve and protect soil quality from the disposal of olive oil mills’ wastes in the Mediterranean region-PROSODOL” (LIFE07 ENV/GR/000280). Total Cost of the Project: 1,628,911€; Duration: 4 years (2009-2012). Web site: <http://www.prosodol.gr>
- Coordinator of the project entitled “Sustainable strategies for the improvement of seriously degraded agricultural areas. The example of Pistachia vera L.-AgroStrat” (LIFE11 ENV/GR/000951). Total Cost of the Project: 1,026,509€; Duration : 4 years (2012-2016). Web site: <http://www.agrostrat.gr>
- Member of the projects’ research team and participation in European and National projects:
 - Integrated Geoinformatic Technologies for the monitoring of soil pollution due to Olive Mill Waste disposal-GeoDiametris), Project THALIS (2012-2015).
 - Development of specific agricultural practices with the use of recycled wastes suitable for intensively cultivated Mediterranean areas under degradation risk-ARIDWASTE. Project ARIMnet (2012-2014). Web site: <http://www.aridwaste.gr>
 - OLIVE-CLIMA: OLIVE crop management practices focused on CLIMAtE change mitigation and adaptation. Project LIFE12+ ENV/GR (2012-2017). Website: <http://www.oliveclima.eu>
 - Quality assessment and optimization of the compost produced from the co-composting of the organic fraction of municipal and green wastes in Chania, Crete. (funding: Inter-Municipal Solid Waste Management Corporation-DEDISA)
 - Treating waste for restoring land sustainability-TWIRLS». (LIFE04 ENV/UK/000820).

TEACHING EXPERIENCE

- 2005-2008:** “Agricultural Chemistry” as visiting Professor in Technological Educational Foundation of Kalamata: Department of Crop Production.
- 2006-2008 :** “Inorganic Chemistry-Laboratory practicals” as visiting Professor in Technological Educational Foundation of Kalamata: Department of Technology of Agricultural Products.
- 2008-2009:** “Soil Science-Laboratory practicals” as visiting Professor in University of Thessaly, Department of agriculture, crop production and agricultural environment.
- October 2014:** Lectures after invitation on the subject “Sustainable soil and waste management in the European agricultural and environmental policy” at John Paul II Catholic University, Lublin, Poland.

PUBLICATIONS

In Journals of Science Citation Index

1. Ioannou A., **Doula M.**, Dimirkou A., Papadopoulos P. 1993. «Interfacial polarization in solids» *Chimika Chronika, New Series*, **22**: 141.
2. Dimirkou A., Mitsios J., Ioannou A., Paschalidis Ch., **Doula M.** 1993. «Kinetic study of phosphorous desorption by Alfisols and Entisols» *Commun. Soil Sci. Plant Anal.* 24(9&10) : 989 .
3. **Doula M.**, Ioannou A., Dimirkou A., Mitsios J. 1994. «Potassium sorption by Calcium-bentonite (Ca-b)» *Commun. Soil Sci. Plant Anal.* 25(9&10) : 1387.
4. Ioannou A., Dimirkou A., Mitsios J. **Doula M.** 1994. « Kinetics of potassium adsorption by Alfisols of Greece» *Commun. Soil Sci. Plant Anal.* 25(9&10) : 1401.
5. Ioannou A., Dimirkou A., **Doula M.**, Paschalidis Ch. 1994. «Kinetics of potassium desorption by Alfisols of Greece» *Commun. Soil Sci. Plant Anal.* 25(9&10) : 1355.
6. Dimirkou A., Ioannou A., Mitsios J., **Doula M.**, Deligianni Ch. 1994. «Kinetics of potassium adsorption by Entisols of Greece» *Commun. Soil Sci. Plant Anal.* 25(9&10) : 1417.
7. Mitsios J., Dimirkou A., Ioannou A., Paschalidis Ch., **Doula M.** 1994. «The sorption isotherms of potassium» *Commun. Soil Sci. Plant Anal.* 25(9&10) : 1373.
8. Ioannou A., Dimirkou A., **Doula M.** 1994. «Phosphate sorption by Ca-bentonite as described by commonly used isotherms» *Commun. Soil Sci. Plant Anal.* 25(13&14): 2299.
9. **Doula M.**, Ioannou A., Dimirkou A. 1994. «Potassium exchange from soil» *Chimika Chronika, New Series*, 23: 103.
10. Dimirkou A., Ioannou A., **Doula M.**, Deligianni Ch. 1994. « Kinetics of potassium adsorption by Entisols (as described by two mathematical model)» *Chimika Chronika, New Series*, 23:169.
11. **Doula M.**, Ioannou A., Dimirkou A. 1995. «Thermodynamics of potassium exchange by Calcium-bentonite» *Commun. Soil Sci. Plant Anal.* 26(9&10) : 1535.
12. Dimirkou A., **Doula M.**, Ioannou A. 1995. «The use of two models to describe the adsorption of potassium by Alfisols» *Chimika Chronika, New Series*, 24 ; 115.
13. **Doula M.**, Ioannou A., Dimirkou A. 1996. «Thermodynamics of phosphate adsorption-desorption by Alfisols , Entisols, Vertisols and Inceptisol» *Commun. Soil Sci. Plant Anal.* 27(5&8) : 1749.

14. **Doula M.**, Dimirkou A., Ioannou A. 1996. «Potassium sorption by Ca-bentonite (Commonly used isotherms)». *Commun. Soil Sci. Plant Anal.* 27(5&8) : 1107.
15. **Doula M.**, Ioannou A., Dimirkou A. 1999 «Influence of ionic strength and pH on Cu²⁺ adsorption and on Mg²⁺, Ca²⁺, Mn²⁺, Zn²⁺ release by kaolinite» *Agrochimica* 43(5-6): 215.
16. **Doula M.**, Ioannou A., Dimirkou A. 2000.«Application of four layer model to describe Hematite, Kaolinite and Kaolinite-Hematite system (k-h) surfaces» *Acta Agronomica Hungarica*, 48(4): 381.
17. **Doula M.**, Ioannou A., Dimirkou A. 2000. «Thermodynamics of copper adsorption-desorption by Ca-kaolinite» *Adsorption*, 6: 325.
18. **Doula M.**, Ioannou A., Dimirkou A. 2002. «Copper adsorption and Si, Al, Ca, Mg and Na release from Clinoptilolite» *J. Colloid & Interf. Sci.*, 245 Vol. 2, 237.
19. Dimirkou. A.,Ioannou A., **Doula M.**, 2002 «Preparation, Characterization and Sorption properties for phosphates of Hematite, Bentonite and Bentonite-Hematite system» *Advances in Colloid and Interface Science*, 97, 37.
20. **Doula K. M.**, Ioannou A., 2003, «The effect of electrolyte anion on Cu adsorption-desorption by clinoptilolite», *Microporous and Mesoporous Materials*, 58/2,115.
21. **Doula K. M.** 2006, Removal of Mn²⁺ ions from drinking water by using Clinoptilolite and a Clinoptilolite-Fe oxide system. *Water Research*, 40, 3167.
22. **Doula K. M.** 2007, Synthesis of a Clinoptilolite-Fe system with high Cu sorption capacity. *Chemosphere*, 67, 731.
23. **Doula K. M.**, Dimirkou A. 2008. An EPR study of Cu adsorption by Clinoptilolite from Cl⁻, NO₃⁻ and SO₄²⁻ solutions. *Journal of Porous Materials*,15, 457.
24. **Doula K. M.**, Dimirkou A. 2008. Use of an Iron-overexchanged Clinoptilolite for the removal of Cu²⁺ ions from drinking water. *Journal of Hazardous Materials* 151, 738.
25. Dimirkou A., **Doula M.K.** 2008. Use of Clinoptilolite and of a Fe-overexchanged Clinoptilolite in Zn²⁺ and Mn²⁺ removal from drinking water. *Desalination*, 224, 280.
26. **Doula, M.K.** 2009. Simultaneous removal of Cu, Mn and Zn from drinking water with the use of clinoptilolite and its Fe-modified form. *Water Research*, 43, 3659.
27. Inglezakis V.J., **Doula, M.K.**, Aggelatou, V, Zorpas, A.A. 2010. Removal of iron and manganese from underground water by use of natural minerals in batch mode treatment. *Desalination and Water Treatment*, 18, 341.
28. Kavvadias, V., **Doula, M.**, Komnitsas, K., Liakopoulou, N. 2010. Disposal of olive oil mill wastes in evaporation ponds: Effects on soil properties. *Journal of Hazardous Materials*, 182, 144.
29. Komnitsas, K., Zaharaki, D., **Doula, M.**, Kavvadias, V. 2011. Origin of recalcitrant heavy metals present in olive mill wastewater evaporation ponds and nearby agricultural soils » *Environmental Forensics*, 12, 319.
30. **Doula, M.K.**, Elaiopoulos, K., Kavvadias, V.A., Mavraganis, V. 2012. Use of Clinoptilolite to improve and protect soil quality from the disposal of Olive Oil Mills Wastes. *Journal of Hazardous Materials*, 207-208, 103.
31. Inglezakis, V.J., Moreno, J.L., **Doula, M.K.** 2012. Olive oil waste management EU legislation: Current situation and policy recommendations. *International Journal of Chemical and Environmental Engineering Systems*, 3(2), 65.

32. **Doula, M.K.** Kavvadias, V. Elaiopoulos, K. 2013. Proposed soil indicators for Olive Mill Waste (OMW) disposal areas. *Water, Air & Soil Pollution*, 224,1621.
33. Komnitsas, K., Modis, K. **Doula, M.**, Kavvadias, V., Sideri, D., Zaharaki, D. 2104. Geostatistical estimation of risk for soil and water in the vicinity of olive oil mill wastewater disposal sites. *Desalination and Water Treatment*, 1-14 (doi: 10.1080/19443994.2014.983988)
34. Kavvadias, V., **Doula, M.K.**, Theocharopoulos S. 2014. Long-term effects of olive oil mill wastes waters. *Environmental Forensics*, 15: 37-51.
35. Kavvadias, V. Papadopoulou, M. **Doula M. K.**, Theocharopoulos, S., 2015. Olive mill waste waters application on soil: soil chemical and microbial properties and their relationships. *Soil Research* (accepted, under publication)

Proceedings of National and International Conferences (with reviewers)

1. Δημήρκου Α., Ιωάννου Α, **Ντούλα Μ.** «Ο ρόλος της ηλεκτρικής αγωγιμότητας των Βιοπολυμερών» Πρακτικά 3^{ου} Συνεδρίου Χημείας Ελλάδας - Κύπρου, Λευκωσία , 30 Σεπτ.- 4 Οκτ. 1992., σελ. 371.
2. Δημήρκου Α, Ιωάννου Α, Παπαδόπουλος Α., **Ντούλα Μ.** «Μελέτη της κινητικής της εκρόφησης του φωσφόρου από ελληνικά εδάφη , τύπου Alfisol. 1. Typic Rodoxeralf» Πρακτικά 3^{ου} Συνεδρίου Χημείας Ελλάδας - Κύπρου, Λευκωσία , 30 Σεπτ.- 4 Οκτ. 1992., σελ. 411.
3. Δημήρκου Α, Ιωάννου Α, Παπαδόπουλος Α., **Ντούλα Μ.** «Μελέτη της κινητικής της εκρόφησης του φωσφόρου από ελληνικά εδάφη , τύπου Alfisol. 2. Aquic Harloxeralf» Πρακτικά 3^{ου} Συνεδρίου Χημείας Ελλάδας - Κύπρου, Λευκωσία , 30 Σεπτ.- 4 Οκτ. 1992., σελ. 418.
4. Ιωάννου Α., Δημήρκου Α., **Ντούλα Μ.** «Ηχομονωτικά υλικά» Πρακτικά 3^{ου} Συνεδρίου Χημείας Ελλάδας - Κύπρου, Λευκωσία , 30 Σεπτ.- 4 Οκτ. 1992., σελ. 366.
5. **Doula M.**, Ioannou A., Dimirkou A. «Thermodynamics of potassium sorption by Calcium-bentonite» *Proceedings of 3rd European Society for Agronomy, Padova, Italy, 18-22 September 1994*, p. 480.
6. Dimirkou A., Ioannou A., **Doula M.** «Temperature influence on potassium sorption isotherms» *Proceedings of 3rd European Society for Agronomy, Padova, Italy, 18-22 September 1994*, p. 478.
7. Ioannou A., Kallianou Ch., Dimirkou A., **Doula M.** «Desorption study of phosphorous from calcium bentonite-Iron (Ca-b-Fe)» *Proceedings of 3rd European Society for Agronomy, Padova, Italy, 18-22 September 1994*, p. 488.
8. **Ντούλα Μ.**, Ιωάννου Α., Δημήρκου Α. «Προτεινόμενο μοντέλο για την περιγραφή της κινητικής της προσρόφησης του καλίου από τον Ca-μπεντονίτη» 5^ο Εδαφολογικό Συνέδριο , 25-27 Μαΐου 1994, Ξάνθη, σελ. 921.
9. **Ντούλα Μ.**, Δημήρκου Α., Ιωάννου Α. «Κάδμιο - Ιδιότητες και συμπεριφορά στα εδάφη» 5^ο Εδαφολογικό Συνέδριο , 25-27 Μαΐου 1994, Ξάνθη, σελ. 978.
10. Ιωάννου Α., Δημήρκου Α., **Ντούλα Μ.**, Δεληγιάννη Χ. «Μελέτη της κινητικής του καλίου σε εδάφη τύπου Entisol» 5^ο Εδαφολογικό Συνέδριο , 25-27 Μαΐου 1994, Ξάνθη, σελ. 949.
11. Δημήρκου Α., Ιωάννου Α., **Ντούλα Μ.**, Δεληγιάννη Χ. «Μελέτη της προσρόφησης και εκρόφησης του φωσφόρου από βασικές κατηγορίες ελληνικών εδαφών» 5^ο Εδαφολογικό Συνέδριο , 25-27 Μαΐου 1994, Ξάνθη, σελ. 856.

12. **Ντούλα Μ.**, Δημήρκου Α., Ιωάννου Α. «Επίδραση του pH στην κινητική προσρόφησης του καλίου από εδάφη τύπου Alfisol-Haploxeralfs.» Πρακτικά 15^{ου} Πανελληνίου Συνεδρίου Χημείας 'Χημεία και Οικονομική Ανάπτυξη' Θεσσαλονίκη, 6-10 Δεκεμβρίου 1994, σελ. 51.
13. **Ντούλα Μ.**, Ιωάννου Α., Δημήρκου Α. «Επίδραση του pH στην κινητική προσρόφησης του καλίου από τον ασβεστωμένο-μπεντονίτη (Ca-b)» Πρακτικά 15^{ου} Πανελληνίου Συνεδρίου Χημείας 'Χημεία και Οικονομική Ανάπτυξη' Θεσσαλονίκη, 6-10 Δεκεμβρίου 1994, σελ. 55.
14. Ιωάννου Α., Δημήρκου Α., **Ντούλα Μ.** «Συμπεριφορά του ασβεστωμένου-μπεντονίτη (Ca-b) στην προσρόφηση του φωσφόρου» Πρακτικά 15^{ου} Πανελληνίου Συνεδρίου Χημείας 'Χημεία και Οικονομική Ανάπτυξη' Θεσσαλονίκη, 6-10 Δεκεμβρίου 1994, σελ. 47.
15. Δημήρκου Α., Ιωάννου Α., **Ντούλα Μ.** «Μελέτη της κινητικής προσρόφησης του φωσφόρου από εδάφη τύπου Inceptisol και Vertisol» Πρακτικά 15^{ου} Πανελληνίου Συνεδρίου Χημείας 'Χημεία και Οικονομική Ανάπτυξη' Θεσσαλονίκη, 6-10 Δεκεμβρίου 1994, σελ. 43.
16. Ντούλα Μ., Ιωάννου Α., «Προσρόφηση Cu από τον καολινίτη», Πρακτικά 17^{ου} Πανελληνίου Συνεδρίου Χημείας 'Η Χημεία στο κατώφλι του 21^{ου} αιώνα', Πάτρα 1-5 Δεκεμβρίου 1996, σελ. 758.
17. **Doula, M. K.**, Dimirkou, A. A simple and low cost method for the synthesis of a Fe-overexchanged Clinoptilolite, suitable for the removal of heavy metals from drinking water. Proceedings of AQUA 2006, Athens, Greece, 23-26 November 2006.
18. Dimirkou, A., **Doula M.K.** Use of Clinoptilolite and of a Fe-overexchanged clinoptilolite in Zn²⁺ and Mn²⁺ removal from drinking water. Proceedings of AQUA 2006, Athens, Greece, 23-26 November 2006.
19. **Doula M.**, Kavvadias, V. Theocharopoulos S., Kouloumbis P., Ikonou, D., Arapoglou D. Environmental impacts relative to soil quality caused from the disposal of olive oil mills' wastes. Case study : A municipality in Crete, Greece. AMIREG 2009 : Advances in Resources & Hazardous Wastes Management towards Sustainable Development, 3rd International Conference, 7-9 September, Athens, Greece .
20. V. Kavvadias, A. Sarris, **M. Doula**, D. Zaharaki, S. Theocharopoulos, K. Komnitsas "Soil Quality Monitoring in Olive Oil Mill Waste Disposal Sites" Proceedings of the 2nd International Conference on Hazardous and Industrial Waste Management, 5-8 October, 2010, Chania-Crete, Greece, pp. 485-487.
21. **M. Doula**, K. Elaiopoulos, V. Kavvadias, V. Mavraganis "Use of Clinoptilolite to improve and protect soil quality from the disposal of olive oil mills wastes" Proceedings of the 2nd International Conference on Hazardous and Industrial Waste Management, 5-8 October, 2010, Chania-Crete, Greece, pp 481-483.
22. D. Arapoglou, **M. Doula**, V. Kavvadias, D. Ikonou, S. Theocharopoulos, P. Tountas "Monitoring of Phenols concentration in soil of olive oil mill waste disposal sites" Proceedings of the 2nd International Conference on Hazardous and Industrial Waste Management, , 5-8 October, 2010, Chania-Crete, Greece, pp 477-479.
23. **Doula M.K.**, Kavvadias, V., Theocharopoulos, S., Elaiopoulos, K. "Use of clinoptilolite for soil improvement at olive oil mills wastes disposal areas". Proceedings of "ATHENS 2012, International Conference on Sustainable Solid Waste Management", 28-29 June 2012, Athens, Greece.
24. Inglezakis, V.J., Moreno, J.L., **Doula, M.K.** "Implications and complications arising from the EU legislation on the management of olive oil waste". Proceedings of "ATHENS 2012,

- International Conference on Sustainable Solid Waste Management”, 28-29 June 2012, Athens, Greece.
25. **Doula M.K.**, Theocharopoulos, S., Kavvadias, V., Lolos, P. “Disposal of olive oil mills wastes in evaporation ponds: a serious threat for soil quality”. Proceedings of the 3rd International Conference on Hazardous and Industrial Waste Management, 12-14 September, 2012, Chania-Crete, Greece.
 26. Chliaoutakis, A., Kydonakis, A., **Doula, M. K.**, Kavvadias, V., Sarris, A., Theocharopoulos, S. “Proposed tool for soil monitoring for olive oil mills wastes disposal areas”. Proceedings of the 3rd International Conference on Hazardous and Industrial Waste Management, 12-14 September, 2012, Chania-Crete, Greece.
 27. Moreno, J.L., **Doula, M.K.**, Sánchez-Moreno, M.A., García, C., Kavvadias, V., Theocharopoulos, S. “Implementation of bioremediation technology to olive oil mill waste disposal area”. Proceedings of the 3rd International Conference on Hazardous and Industrial Waste Management, 12-14 September, 2012, Chania-Crete, Greece.
 28. Kavvadias, V., Papadopoulou, M., **Doula, M.K.**, Theocharopoulos, S. “Olive mill waste application on soil: effect on soil microbial activity and its relation to soil chemical properties”. Proceedings of the 3rd International Conference on Hazardous and Industrial Waste Management, 12-14 September, 2012, Chania-Crete, Greece.
 29. Chliaoutakis, A., Kydonakis, A., **Doula, M.K.**, Kavvadias, V., Sarris, A., Papadopoulos, N. “Geospatial tools for olive oil mills’ wastes (OOMW) disposal areas management”. Advances in Geoscience, EARSel, 2012, 24-15 May 2012, Mykonos island, Greece.
 30. **Doula, M.K.**, Theocharopoulos, S., Kavvadias, V., Kouloubis, P. “Proposed system for soil quality monitoring at olive mill waste disposal areas”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 170-179.
 31. **Doula, M.K.**, Kavvadias, V., Theocharopoulos, S., Sarris, A., Zorpas, A. “Proposals for the olive mills’ owners and the local authorities”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 337-347.
 32. Kavvadias, V., **Doula, M.K.**, Theocharopoulos, S., Kouloubis, P. “Effects of OMW disposal on soil and on the environment-Results of PROSODOL project”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 260-266.
 33. Inglezakis, V., **Doula, M.K.**, Theocharopoulos, S., Kavvadias, V. “Review and discussion on the costs and economic feasibility of olive mill waste treatment methods”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 202-211.
 34. Kavvadias, V., **Doula, M.K.**, Theocharopoulos, S., Kouloubis, P. “Lettuce cultivation at an olive mill waste disposal area”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 92-100.
 35. Moreno, J.L., **Doula, M.K.**, Sanchez-Moreno, M.A., Garcia, C., Kavvadias, V., Theocharopoulos, S. “Bioremediation technology implementation at an olive mill waste disposal area”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp.112-119.

36. Theocharopoulos, S., **Doula, M.K.**, Kavvadias, V., Kouloumbis, P. “Indicators for monitoring soil quality at olive mill waste disposal areas”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp.101-110.
37. Tinivella, F., Minuto, A., Medini, L., Bruzzone, D., **Doula, M.K.**, Kavvadias, V. “Effects of OMWW spreading on soil properties and on plant growth of an experimental olive orchard”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp. 73-81.
38. Chliaoutakis, A., Kydonakis, A., Sarris, A., Papadopoulos, N., **Doula, M.K.**, Kavvadias, V. “Geo-informatic web-based application for olive mill’s wastes disposal areas management”. Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece, pp.158-169.
39. **Doula, M.K.**, Kouloumbis, P., Elaiopoulos, K. “Turning wastes into value ble materials: Valorization of pistachio wastes in agricultural sector”. SYMBIOSIS International Conference 2014, Athens 19-21 June, Athens, Greece. (http://conference2014.esymbiosis.eu/pdf/doula_et_al.pdf)

Publication in Abstract books-poster presentations

1. Ikononou, D., Arapoglou, D., **Doula, M.K.**, Kavvadias, V. “Monitoring of phenolic compounds in soil from the disposal site of olive oil mill wastewater (OMW)”. OLIVEBIOTEQ 2011 Conference, Chania, Crete, October 31st-November 4th. Book of Abstracts p. 262.
2. Theocharopoulos, S., **Doula, M.K.**, Kavvadias, V., Liakopoulou, N. “Olive oil mills waste disposal on soil-Proposed indicators”. EUROSOIL 2012, 4th International Congress of the European Confederation of soil science society, 2-6 July 2012, Bari-Italy. Poster presentation.
3. **Doula, M.K.**, Kavvadias, V., Theocharopoulos, S., Elaiopoulos, K. “Pilot application of clinoptilolite in an olive oil mill waste disposal area-Soil improvement”. EUROSOIL 2012, 4th International Congress of the European Confederation of soil science society, 2-6 July 2012, Bari-Italy. Poster presentation.
4. Kavvadias, V., **Doula, M.K.**, Komnitsas, K., Theocharopoulos, S., Zaharaki, D., Perdikatsis, V. “Nickel presence in olive oil mill waste disposal areas”. EUROSOIL 2012, 4th International Congress of the European Confederation of soil science society, 2-6 July 2012, Bari-Italy. Poster presentation.
5. **Doula, M.**, Kavvadias, V., Sarris, A., Lolos, P., Liakopoulou, N. Hliaoutakis, A. Kydonakis, A. “Assessing and monitoring soil quality at agricultural waste disposal areas-Soil Indicators”. EGU 2014 Geophysical Research Abstracts Vol. 16, , EGU General Assembly 2014. Vienna, 27 April-2 May 2014.
6. **Doula, M.**, Sarris, A., Luis Moreno, J., Tinivella, F., Komnitsas, K. “On the development of soil protection and monitoring strategies at agricultural waste disposal areas”. SER 2014. 9th European Conference on ecological restoration, Oulu, finalnd, 3-8 August 2014, Book of abstracts, p. 42.

Book Chapters

1. **Doula, M.K.**, Kavvadias, V.A., Elaiopoulos, K. 2012. Zeolites in Soil Remediation processes. In: “Natural Zeolites”, V. Inglezakis and A. Zorpas (eds). Bentham Publisher, chapter 22, pp. 519-568.
2. Kavvadias, V., Komnitsas, K., **Doula, M.K.** 2011. Long term effects of Olive Mill Wastes disposal on soil fertility and productivity. In: Satinder Kaor Brar (ed.) Hazardous Materials: Types, Risks and Control. NOVA Science Publishers, Inc. ISBN : 978-1-61324-425-8. Chapter 16. (https://www.novapublishers.com/catalog/product_info.php?products_id=20178)
3. **Doula, M.K.**, Tinivella, F., Sarris, A., Kavvadias, V., Moreno-Ortego, J., Komnitsas, K. 2014. Agricultural wastes: protecting soil quality by sustainable disposal and reuse in agriculture. In: Sustainability behind sustainability (A. Zorpas, Ed.), Publisher: NOVA SCIENCE, chapter 15, pp. 243-274.

Technical Studies

1. **Doula, M.K.**, Tinivella, F., Moreno, J.L., Kavvadias, V., Sarris, A., Theocharopoulos, S., Sanchez-Monedero, M., Elaiopoulos, K. 2012. “Good Practices for the Agronomic Use of Olive Mill Wastes-Application Guide”. (Edited by M.K.Doula), LIFE07 ENV/GR/280 PROSODOL, 2012. (In English and in Greek).
2. **Doula, M.K.**, Kavvadias, V., Komnitsas, K., Tinivella, F., Moreno, J.L., Sarris, A. 2012. “PROSODOL: Results and Achievements of a 4-year demonstration project: what to consider, what to do”. (Edited by M.K.Doula), LIFE07 ENV/GR/280 PROSODOL, 2012.
3. **Doula, M.K.**, Moreno, J.L., Tinivella, F., Inglezakis, V., Sarris, A., Komnitsas, K., 2012. “Integrated Strategy of activities, measures and means appropriate for Mediterranean countries”. (Edited by M.K.Doula, K. Elaiopoulos), LIFE07 ENV/GR/280 PROSODOL, 2012. (In Greek).
4. **Doula, M.K., Komnitsas, K., Sarris, A. 2014.** Assessment of environmental status of the pilot area-Aegina. In the framework of the LIFE project: “*Sustainable strategies for the improvement of seriously degraded agricultural areas. The example of Pistachia vera L.- AgroStrat*” (LIFE11 ENV/GR/000951). In Greek, on line: <http://www.agrostrat.gr/sites/default/files/files/environmental%20Aegina.pdf>

PROPOSAL EVALUATOR FOR:

1. The European Commission (HORIZON 2020)
2. Greek Ministry of Education, Lifelong Learning and Religious (EYSED/ETAK). Project: Cooperation, ESPA
3. Romanian National Council for Research and Development-National Authority for Scientific Research, Ministry of Education, Research, Youth and Sport, Romania
4. National Center of Science and Technology Evaluation, Ministry of Education Science, Kazakhstan.
5. Bulgarian National Science Fund (NSF)

MEMBER OF THE MONITORING TEAM OF:

General Secretariat for Research and Technology (GSRT). Project: ESPA, for funded projects monitoring

REVIEWER for INTERNATIONAL JOURNALS

Invited Reviewer for: Journal of Colloid and Interface Science; Separation Science and Technology; Water Research, Microporous and Mesoporous Materials; Journal of Hazardous Materials; Journal of Chemical Technology & Biotechnology; Water, Air, & Soil Pollution; Industrial & Engineering Chemical Research; The Open Hydrology Journal, Australian Journal of Soil Research; Journal of Chemical Engineering and Materials Science, Clays and Clay Minerals; Applied Clay Science; Journal of Soil Science and Environmental Management; The Philippine Scientist; Compost Science & Utilization; International Research Journal of Pure and Applied Chemistry; Chemical Industry & Chemical Engineering Quarterly; International Journal of Agricultural Resources, Governance and Ecology; African Journal of Agricultural Research; Environment, Systems and Decisions, Adsorption Science and Technology and others.

MEMBER OF BOARDS AND COMMITTEES

- Member of the Editorial Board of Information Processing in Agriculture - Elsevier, <http://www.elsevier.com/locate/inpa>
- Member of the Editorial Board of The Open Access Journal of Science and Technology, <http://www.oajost.com/editorialboard/d/2/>
- Member of the Editorial Board of The Open Hydrology Journal, <http://www.benthamscience.com/open/tohydj/EBM.htm>
- Member of the Steering Committee of AMIREG 2009: Advances in Resources & Hazardous Wastes Management towards Sustainable Development, 3rd International Conference, 7-9 September, Athens, Greece (<http://heliotopos.conferences.gr/4434.html>).
- Member of the Steering Committee and Organization of Symposium on Olive Mill Wastes and Environmental Protection, 16-18 October, 2012, Chania, Crete, Greece (<http://www.prosodol.gr>).
- Member of the external Committee of the FP7 project “Farm-Level Indicators for New Topics in policy evaluation – FLINT”.

OTHER ACTIVITIES

- Member of Greek Chemist Society
- Founding and Board Member of the Cretan Cultural Association *Aoritis*. Organizing cultural events in Greece and abroad (<http://www.aoreitis.gr>).
- Member of the Cretan Association of Petroupolis, Athens.
- Member of the Cretan Association of Agioi Anargyroi, Athens
- Member of Pontian Association of Petroupolis, Athens