



INSTITUTE OF SOIL AND WATER RESOURCES (ISWR)
THERMI-THESSALONIKI



List of publications in international journals produced by former and current members of the ISWR Thermi-Thessaloniki on behalf of ISWR or other institutions:

2017

1. Tziachris, P., Metaxa, E., Papadopoulos, F., Papadopoulou, M., 2017. Spatial modelling and prediction assessment of soil iron using Kriging interpolation with pH as auxiliary information. *ISPRS International Journal of Geo-Information*, 6 (9), art. no. 283.
2. Tziachris, P., Lekakis, E., Zambetoglou, K., Metaxa, I., Papadopoulos, F., 2017. A Case Study of the Effects of Sewage Sludge Application on Soil Properties and Heavy Metal Availability in the Thessaloniki Plain (Greece). *Waste and Biomass Valorization*, 8 (5), pp. 1803-1811.
3. Giannakopoulos, E., Kalavrouziotis, I.K., Dimitrelos, H., Koukoulakis, P.H., Varnavas, S.P., Papadopoulos, F., 2017. Evaluation of interactions among sewage sludge bioavailable metals from WWTPs using DTPA agent. *Desalination and Water Treatment*, 71, pp. 25-31.
4. Papaioannou, D., Kalavrouziotis, I.K., Koukoulakis, P.H., Papadopoulos, F., 2017. Critical ranges of pollution indices: a tool for predicting soil metal pollution under long-term wastewater reuse. *Toxicological and Environmental Chemistry*, 99 (2), pp. 197-208.
5. Papaioannou, D., Kalavrouziotis, I.K., Koukoulakis, P.H., Papadopoulos, F., Psoma, P., 2017. Metal fixation under soil pollution and wastewater reuse. *Desalination and Water Treatment*, 65, pp. 43-51.
6. Papaioannou, D., Kalavrouziotis, I.K., Koukoulakis, P.H., Papadopoulos, F., Psoma, P., 2017. Interrelationships of metal transfer factor under wastewater reuse and soil pollution. *Journal of Environmental Management*, Article in Press.
7. Chatzistathis, T., Papaioannou, A., Gasparatos, D., Molassiotis, A., 2017. From which soil metal fractions Fe, Mn, Zn and Cu are taken up by olive trees (*Olea europaea* L., cv. 'Chondrolia Chalkidikis') in organic groves? *Journal of Environmental Management*, 203, pp. 489-499.
8. Chatzistathis, T., Koutsos, T., 2017. Olive mill wastewater as a source of organic matter, water and nutrients for restoration of degraded soils and for crops managed with sustainable systems. *Agricultural Water Management*, 190, pp. 55-64.
9. Chatzistathis, T., Delviniotis, A., Panagakos, A., Giannakoula, A., Tranaka, V., Molassiotis, A., 2017. Foliar manganese, zinc and boron application effects on mineral nutrition of an experimental olive grove (cv. "Chondrolia Chalkidikis"). *Journal of Plant Nutrition*, 40 (12), pp. 1728-1742.
10. Tsabarducas, V., Chatzistathis, T., Therios, I., Patakas, A., 2017. How nitrogen form and concentration affect growth, nutrient accumulation and photosynthetic performance of *Olea europaea* L. (cv. 'Kalamon'). *Scientia Horticulturae*, 218, pp. 23-29.
11. Aschonitis, V.G., Papamichail, D., Demertzi, K., Colombani, N., Mastrocicco, M., Ghirardini, A., Castaldelli, G., Fano, E.A., 2017. High-resolution global grids of revised Priestley-Taylor and Hargreaves-Samani coefficients for assessing ASCE-standardized reference crop evapotranspiration and solar radiation. *Earth System Science Data*, 9 (2), pp. 615-638.
12. Aschonitis, V., Diamantopoulou, M., Papamichail, D., 2017. Modeling plant density and ponding water effects on flooded rice evapotranspiration and crop coefficients: critical discussion about the concepts used in current methods. *Theoretical and Applied Climatology*, Article in Press.
13. Gaglio, M., Aschonitis, V.G., Gissi, E., Castaldelli, G., Fano, E.A., 2017. Land use change effects on ecosystem services of river deltas and coastal wetlands: case study in Volano–Mesola–Goro in Po river delta (Italy). *Wetlands Ecology and Management*, 25 (1), pp. 67-86.
14. Aschonitis, V., Castaldelli, G., Lanzoni, M., Rossi, R., Kennedy, C., Fano, E.A., 2017. Long-term records (1781–2013) of European eel (*Anguilla anguilla* L.) production in the Comacchio Lagoon (Italy): evaluation

of local and global factors as causes of the population collapse. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 27 (2), pp. 502-520.

15. Aschonitis, V.G., Castaldelli, G., Lanzoni, M., Merighi, M., Gelli, F., Giari, L., Rossi, R., Fano, E.A., 2017. A size-age model based on bootstrapping and Bayesian approaches to assess population dynamics of *Anguilla anguilla* L. in semi-closed lagoons. *Ecology of Freshwater Fish*, 26 (2), pp. 217-232.
16. Gissi, E., Gaglio, M., Aschonitis, V.G., Fano, E.A., Reho, M., 2017. Soil-related ecosystem services trade-off analysis for sustainable biodiesel production. *Biomass and Bioenergy*, Article in Press.
17. Gaglio, M., Aschonitis, V.G., Mancuso, M.M., Reyes, J.P., Moscoso, F., Castaldelli, G., Fano, E.A., 2017. Changes in land use and ecosystem services in tropical forest areas: a case study in Andes mountains of Ecuador. *International Journal of Biodiversity Science, Ecosystem Services & Management*, 13 (1), pp. 264-279.
18. Aschonitis, V.G., Awe, G.O., Abegunrin, T.P., Demertzi, K.A., Papamichail, D.M., Castaldelli, G., 2016. Geographic segmentation, spatial dependencies, and evaluation of the relative position of rain-gauges based on gridded data of mean monthly precipitation: application in Nigeria. *Hydrology Research*, Article in Press.
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21. Iatrou, M., Papadopoulos, A., 2016. Influence of nitrogen nutrition on nitrate levels of strawberry leaf blades and petioles. *Journal of Plant Nutrition*, 39 (8), pp. 1131-1136.
22. Papaioannou, D., Kalavrouziotis, I.K., Koukoulakis, P., Papadopoulos, F., 2015. A proposed method for the assessment of the interactive heavy metal accumulation in soils. *Global Nest Journal*, 17 (4), pp. 835-846.
23. Saykhul, A., Chatzistathis, T., Chatzissavvidis, C., Therios, I., Menexes, G., 2016. Root growth of cultivated and "wild" olive in response to potassium mineral nutrition. *Journal of Plant Nutrition*, 39 (11), pp. 1513-1523.
24. Chatzistathis, T., Tsiolis, A., Papaioannou, A., Tsirakoglou, V., Molassiotis, A., 2016. Can sustainable management models for olive groves adequately satisfy their nutritional needs? *Scientia Horticulturae*, 207, pp. 48-56.
25. Papaioannou, A., Chatzistathis, T., Papaioannou, E., Papadopoulos, G., 2016. *Robinia pseudoacacia* as a valuable invasive species for the restoration of degraded croplands. *Catena*, 137, pp. 310-317.
26. Fedrigotti, C., Aschonitis, V., Fano, E.A., 2016. Effects of forest expansion and land abandonment on ecosystem services of alpine environments: Case study in ledro valley (Italy) for the period 1859-2011. *Global Nest Journal*, 18 (4), pp. 875-884.
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32. Lanzoni, M., Gavioli, A., Aschonitis, V., Merighi, M., Fano, E.A., 2016. Castaldelli, G., 2016. Length-weight relationships of three estuarine species in the Comacchio Lagoon, Po River delta, Italy. *Journal of Applied Ichthyology*, 32 (6), pp. 1284-1285.
33. Gaglio, M., Aschonitis, V., Gissi, E., Castaldelli, G., Fano, E.A., 2016. Non-market ecosystem services of agricultural land and priorities towards a more sustainable agriculture in Italy. *Journal of Agriculture, Food and Development*, 2, pp. 23-31.

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35. Iatrou, M., Papadopoulos, A., Papadopoulos, F., Dichala, O., Psoma, P., Bountla, A., 2015. Determination of Soil-Available Micronutrients using the DTPA and Mehlich 3 Methods for Greek Soils Having Variable Amounts of Calcium Carbonate. *Communications in Soil Science and Plant Analysis*, 46 (15), pp. 1905-1912.
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 41. Chatzistathis, T., Alifragis, D., Papaioannou, A., 2015. The influence of liming on soil chemical properties and on the alleviation of manganese and copper toxicity in *Juglans regia*, *Robinia pseudoacacia*, *Eucalyptus* sp. and *Populus* sp. Plantations. *Journal of Environmental Management*, 150, pp. 149-156.
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 44. Aschonitis, V.G., Castaldelli, G., Bartoli, M., Fano, E.A., 2015. A Review and Synthesis of Bivariate Non-Linear Models to Describe the Relative Variation of Ecological, Biological and Environmental Parameters. *Environmental Modeling and Assessment*, 20 (2), pp. 169-182.
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- Amounts of Calcium Carbonate. *Communications in Soil Science and Plant Analysis*, 45 (16), pp. 2207-2214.
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