

- 1- Afrasinei, G.M., Melis, M.T., Buttau, C., Bradd, J.M., Arras, C., Ghiglieri, G. Diachronic analysis of salt-Affected areas using remote sensing techniques: The case study of Biskra area, Algeria (2015) Proceedings of SPIE - The International Society for Optical Engineering, 9644, art. no. 96441D, <http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=2466351> – DOI: 10.1117/12.2194998
- 2- Afrasinei, G. M., Melis, M. T., Buttau, C., Arras, C., & Ghiglieri, G. (2015). ANALYSIS OF SPATIO-TEMPORAL DYNAMICS OF AEOLIAN PROCESSES IN ARID AND SEMI-ARID AREAS USING REMOTE SENSING. *Geomorphology for Society*. <file:///C:/Users/user/Downloads/1897-5918-1-SM.pdf>
- 3- Arras, C., Longo, V., Testone, V., Carletti, A., Buttau, C., Da Pelo, S., Ouessar, M., Ghiglieri, G. Electrical Resistivity Tomography for the identification of the alluvium-triassic boundary in Medenine region (SE Tunisia) (2015) *Rendiconti Online Societa Geologica Italiana*, 35, pp. 10-12. <http://rendiconti.socgeol.it/244/fulltext.html?ida=2186> – DOI: 10.3301/ROL.2015.51
- 4- Brunetti, A., Golosio, B., Melis, M.G., Mura, S., (2015). A high-quality multilayer structure characterization method based on X-ray fluorescence and Monte Carlo simulation. *Applied Physics A*. 1.69 Impact Factor. 02/2015; 118:497-504. <https://link.springer.com/article/10.1007/s00339-014-8838-9> – DOI: 10.1007/s00339-014-8838-9
- 5- Cappai, C., Kemanian, A.R., Lagomarsino, A., Roggero, P.P., Lai, R., Agnelli, A.E., Seddaiu, G. Small-scale spatial variation of soil organic matter pools generated by cork oak trees in Mediterranean agro-silvo-pastoral systems (2015) *Geoderma*, . Article in Press. <http://www.sciencedirect.com/science/article/pii/S0016706116303123?via%3Dihub> – DOI: doi.org/10.1016/j.geoderma.2016.07.021
- 6- Caria, M.C., Capra, G.F., Buondonno, A., Seddaiu, G., Vacca, S., Bagella, S. Small-scale patterns of plant functional types and soil features within Mediterranean temporary ponds (2015) *Plant Biosystems*, 149 (2), pp. 384-394. Cited 5 times. <http://www.tandfonline.com/doi/abs/10.1080/11263504.2013.821097> – DOI: dx.doi.org/10.1080/11263504.2013.821097
- 7- Cattaneo T.M.P., Bazar G., Gowen A., Greppi G.F., Mura S., Tsenkova R. Water monitoring with hyperspectral techniques. *Transitional water bulletin* 09/2015, n. 1, 11-19 ISSN 1825-229X, <http://siba-ese.unisalento.it/index.php/twb/article/view/15386> - DOI 10.1285/i1825229Xv9n1p11
- 8- Da Pelo, S., Ghiglieri, G., Buttau, C., Cuzzocrea, C., Carletti, A., Biddau, R., Fenza, P., Arras, C., Funedda, A., Cidu, R. 3D hydrogeological modelling supported by geochemical mapping as an innovative approach for management of aquifers applied to the Nurra district (Sardinia, Italy) (2015) *Rendiconti Online Societa Geologica Italiana*, 35, pp. 300-303. <http://rendiconti.socgeol.it/244/fulltext.html?ida=2260> – DOI: 10.3301/ROL.2015.125
- 9- Ewert, F., Rötter, R.P., Bindi, M., Webber, H., Trnka, M., Kersebaum, K.C., Olesen, J.E., van Ittersum, M.K., Janssen, S., Rivington, M., Semenov, M.A., Wallach, D., Porter, J.R., Stewart, D., Verhagen, J., Gaiser, T., Palosuo, T., Tao, F., Nendel, C., Roggero, P.P., Bartosčová, L., Asseng, S. Crop modelling for integrated assessment of risk to food

- production from climate change (2015) *Environmental Modelling and Software*,  
<http://www.sciencedirect.com/science/article/pii/S1364815214003582> – DOI:  
[doi.org/10.1016/j.envsoft.2014.12.003](https://doi.org/10.1016/j.envsoft.2014.12.003)
- 10- Gutierrez, L., Piras, F., Paolo Roggero, P. A Global Vector Autoregression Model for the Analysis of Wheat Export Prices (2015) *American Journal of Agricultural Economics*, 97 (5), pp. 1494-1511. <https://academic.oup.com/ajae/article/97/5/1494/129447/A-Global-Vector-Autoregression-Model-for-the> – DOI: [doi.org/10.1093/ajae/aau103](https://doi.org/10.1093/ajae/aau103)
- 11- Hoffmann, H., Zhao, G., Van Bussel, L.G.J., Enders, A., Specka, X., Sosa, C., Yeluripati, J., Tao, F., Constantin, J., Raynal, H., Teixeira, E., Grosz, B., Doro, L., Zhao, Z., Wang, E., Nendel, C., Kersebaum, K.C., Haas, E., Kiese, R., Klatt, S., Eckersten, H., Vanuytrecht, E., Kuhnert, M., Lewan, E., Rötter, R., Roggero, P.P., Wallach, D., Cammarano, D., Asseng, S., Krauss, G., Siebert, S., Gaiser, T., Ewert, F. Variability of effects of spatial climate data aggregation on regional yield simulation by crop models (2015) *Climate Research*, 65, pp. 53-69. <http://www.int-res.com/abstracts/cr/v65/p53-69/> - DOI:10.3354/cr01326
- 12- Kollas, C., Kersebaum, K.C., Nendel, C., Manevski, K., Müller, C., Palosuo, T., Armas-Herrera, C.M., Beaudoin, N., Bindi, M., Charfeddine, M., Conradt, T., Constantin, J., Eitzinger, J., Ewert, F., Ferrise, R., Gaiser, T., Cortazar-Atauri, I.G., Giglio, L., Hlavinka, P., Hoffmann, H., Hoffmann, M.P., Launay, M., Manderscheid, R., Mary, B., Mirschel, W., Moriondo, M., Olesen, J.E., Öztürk, I., Pacholski, A., Ripoche-Wachter, D., Roggero, P.P., Roncossek, S., Rötter, R.P., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Waha, K., Wegehenkel, M., Weigel, H.-J., Wu, L. Crop rotation modelling-A European model intercomparison (2015) *European Journal of Agronomy*, 70, pp. 98-111.  
<http://www.sciencedirect.com/science/article/pii/S1161030115300010> – DOI:  
[doi.org/10.1016/j.eja.2015.06.007](https://doi.org/10.1016/j.eja.2015.06.007)
- 13- Lubino, M., Contran, N., Gennaro, L., Mulas, M., Effects of pre-sowing treatments on *Jatropha curcas* seed germination and seedling growth. *African Journal of Agricultural Research*, Vol. 10(26), pp. 2553-2561, 25 June, 2015  
<http://www.academicjournals.org/journal/AJAR/article-abstract/AE351DD53642> – DOI:  
10.5897/AJAR2015.9788
- 14- Mura, S., Greppi, G., Irudayaraj, J. Latest developments of nanotoxicology in plants (2015) *Nanotechnology and Plant Sciences: Nanoparticles and Their Impact on Plants*, pp. 125-151.  
[https://link.springer.com/chapter/10.1007/978-3-319-14502-0\\_7](https://link.springer.com/chapter/10.1007/978-3-319-14502-0_7) – DOI:  
[doi.org/10.1007/978-3-319-14502-0\\_7](https://doi.org/10.1007/978-3-319-14502-0_7)
- 15- Mura, S., Greppi, G., Malfatti, L., Lasio, B., Sanna, V., Mura, M.E., Marceddu, S., Lugliè, A. Multifunctionalization of wool fabrics through nanoparticles: A chemical route towards smart textiles (2015) *Journal of Colloid and Interface Science*, 456, pp. 85-92. <http://www.sciencedirect.com/science/article/pii/S0021979715005561> – DOI:  
[doi.org/10.1016/j.jcis.2015.06.018](https://doi.org/10.1016/j.jcis.2015.06.018)
- 16- Mura, S., Greppi, G., Roggero, P.P., Musu, E., Pittalis, D., Carletti, A., Ghiglieri, G., Irudayaraj, J. Functionalized gold nanoparticles for the detection of nitrates in water (2015) *International Journal of Environmental Science and Technology*, 12 (3), pp. 1021-1028. Cited 2 times. <https://link.springer.com/article/10.1007/s13762-013-0494-7> – DOI:  
[doi.org/10.1007/s13762-013-0494-7](https://doi.org/10.1007/s13762-013-0494-7)

- 17- Ren, W., Mura, S., Irudayaraj, J.M.K. Modified graphene oxide sensors for ultra-sensitive detection of nitrate ions in water. *Talanta*. 2015 Oct 1;143:234-9. doi: 10.1016/j.talanta.2015.05.073. Epub 2015 May 28  
<https://www.ncbi.nlm.nih.gov/pubmed/26078154> – DOI: 10.1016/j.talanta.2015.05.073
- 18- Roggero P.P., Argenti G., Bindi M., Dibari C., Mula L., Pulina A., Seddaiu G. (2015). Stato e prospettive della ricerca italiana per la produzione di alimenti zootecnici in un contesto di cambiamenti climatici. In: Quaderni dei Georgofili, “Stato, Prospettive e fabbisogni della ricerca italiana in zootecnia nel contesto dei cambiamenti climatici” 2015-IV. Firenze, 22 Aprile 2015, Edizioni Polistampa, pag. 45-96.
- 19- Rossetti, I., Bagella, S., Cappai, C., Caria, M.C., Lai, R., Roggero, P.P., Martins da Silva, P., Sousa, J.P., Querner, P., Seddaiu, G. Isolated cork oak trees affect soil properties and biodiversity in a Mediterranean wooded grassland (2015) *Agriculture, Ecosystems and Environment*, 202, pp. 203-216.  
<http://www.sciencedirect.com/science/article/pii/S0167880915000092> – DOI: doi.org/10.1016/j.agee.2015.01.008
- 20- Saidi, H., Ciampittiello, M., Dresti, C., Ghiglieri, G. Assessment of Trends in Extreme Precipitation Events: A Case Study in Piedmont (North-West Italy) (2015) *Water Resources Management*, 29 (1), pp. 63-80. <https://link.springer.com/article/10.1007/s11269-014-0826-5> – DOI: 10.1007/s11269-014-0826-5
- 21- Sándor, R., Barcza, Z., Acutis, M., Doro, L., Hidy, D., Köchy, M., Minet, J., Lellei-Kovács, E., Ma, S., Perego, A., Rolinski, S., Ruget, F., Sanna, M., Seddaiu, G., Wu, L., Bellocchi, G. Multi-model simulation of soil temperature, soil water content and biomass in Euro-Mediterranean grasslands: Uncertainties and ensemble performance (2015) *European Journal of Agronomy*, . Article in Press.  
<http://www.sciencedirect.com/science/article/pii/S1161030116301204> – DOI: doi.org/10.1016/j.eja.2016.06.006
- 22- Solinas, S., Fazio, S., Seddaiu, G., Roggero, P.P., Deligios, P.A., Doro, L., Ledda, L. Environmental consequences of the conversion from traditional to energy cropping systems in a Mediterranean area (2015) *European Journal of Agronomy*, 70, pp. 124-135.  
<http://www.sciencedirect.com/science/article/pii/S1161030115300137> – DOI: doi.org/10.1016/j.eja.2015.07.008
- 23- Tardy, V., Spor, A., Mathieu, O., Lévèque, J., Terrat, S., Plassart, P., Regnier, T., Bardgett, R.D., van der Putten, W.H., Roggero, P.P., Seddaiu, G., Bagella, S., Lemanceau, P., Ranjard, L., Maron, P.-A. Shifts in microbial diversity through land use intensity as drivers of carbon mineralization in soil (2015) *Soil Biology and Biochemistry*, 90, pp. 204-213.  
<http://www.sciencedirect.com/science/article/pii/S0038071715002795> – DOI: doi.org/10.1016/j.soilbio.2015.08.010
- 24- Zhao, G., Hoffmann, H., Van Bussel, L.G.J., Enders, A., Specka, X., Sosa, C., Yeluripati, J., Tao, F., Constantin, J., Raynal, H., Teixeira, E., Grosz, B., Doro, L., Zhao, Z., Nendel, C., Kiese, R., Eckersten, H., Haas, E., Vanuytrecht, E., Wang, E., Kuhnert, M., Trombi, G., Moriondo, M., Bindi, M., Lewan, E., Bach, M., Kersebaum, K.-C., Rötter, R., Roggero, P.P., Wallach, D., Cammarano, D., Asseng, S., Krauss, G., Siebert, S., Gaiser, T., Ewert, F. Effect of weather data aggregation on regional crop simulation for different crops, production

- conditions, and response variables (2015) *Climate Research*, 65, pp. 141-157.  
<http://www.int-res.com/abstracts/cr/v65/p141-157/> – DOI: /doi.org/10.3354/cr01301
- 25- Zucca, C., Arrieta Garcia, S., Deroma, M., & Madrau, S. (2015). Organic Carbon and Alkalinity Increase in Topsoil After Rangeland Restoration Through *Atriplex nummularia* Plantation. *Land Degradation & Development*  
<http://onlinelibrary.wiley.com/doi/10.1002/ldr.2378/epdf> – DOI: 10.1002/ldr.2378
- 26- Zucca, C., Wu, W., Dessena, L., Mulas, M. Assessing the Effectiveness of Land Restoration Interventions in Dry Lands by Multitemporal Remote Sensing - A Case Study in Ouled DLIM (Marrakech, Morocco) (2015) *Land Degradation and Development*, 26 (1), pp. 80-91.  
<http://onlinelibrary.wiley.com/doi/10.1002/ldr.2307/full> - DOI: 10.1002/ldr.2307

## 2016

- 1- Arras, C., Baba Sy, M., Buttau, C., Carletti, A., Afrasinei, G. M., & Ghiglieri, G. (2016). Preliminary results of a 3-D groundwater flow model in an arid region of NE Algeria using PMWin: The Inféro-flux phreatic aquifer (Biskra). *Rendiconti Online Societa Geologica Italiana*, 41, 18–21. <https://doi.org/10.3301/ROL.2016.82>
- 2- Bagella, S., Caria, M.C., Farris, E., Rossetti, I., Filigheddu, R. Traditional land uses enhanced plant biodiversity in a Mediterranean agro-silvo-pastoral system (2016) *Plant Biosystems*, 150 (2), pp. 201-207.  
<http://www.tandfonline.com/doi/abs/10.1080/11263504.2014.943319> – DOI: dx.doi.org/10.1080/11263504.2014.943319
- 3- Bagella, S., Gascón, S., Filigheddu, R., Cogoni, A., Boix, D. Mediterranean Temporary Ponds: new challenges from a neglected habitat (2016) *Hydrobiologia*, 782 (1), <https://link.springer.com/article/10.1007/s10750-016-2962-9> DOI: 10.1007/s10750-016-2962-9
- 4- Biddau, R., Cidu, R., Ghiglieri, G., Da Pelo, S., Carletti, A., Pittalis, D., (2016) Nitrate occurrence in groundwater hosted in hard-rock aquifers: estimating background values at a regional scale. *Italian Journal of Geosciences*.  
<http://italianjgeo.geoscienceworld.org/content/136/1/113> – DOI: 10.3301/IJG.2016.03
- 5- Blackmore, C., van Bommel, S., de Bruin, A., de Vries, J., Westberg, L., Powell, N., Foster, N., Collins, K., Roggero, P.P., Seddaiu, G. Learning for transformation of water governance: reflections on design from the climate change adaptation and water governance (CADWAGO) project (2016) *Water (Switzerland)*, 8 (11), art. no. 510 .  
<http://www.mdpi.com/2073-4441/8/11/510/htm> – DOI: 10.3390/w8110510
- 6- Contran, N., Chessa, L., Lubino, M., Bellavite, D., Lobina, R., Sahanoon, O., Fuseini, S., Imoro, T.S., Roggero, P.P., Enne, G. Potentialities and limits of *Jatropha curcas* L. as alternative energy source to traditional energy sources in Northern Ghana (2016) *Energy for Sustainable Development*, 31, pp. 163-169.  
<http://www.sciencedirect.com/science/article/pii/S0973082615302891> – DOI:10.1016/j.esd.2016.02.004
- 7- Costantini, E.A.C., Branquinho, C., Nunes, A., Schwilch, G., Stavi, I., Valdecantos, A., Zucca, C. Soil indicators to assess the effectiveness of restoration strategies in dryland ecosystems (2016) *Solid Earth*, 7 (2), pp. 397-414.  
[https://www.researchgate.net/profile/E\\_Costantini/publication/286401333\\_Soil\\_indicators\\_t](https://www.researchgate.net/profile/E_Costantini/publication/286401333_Soil_indicators_t)

- o\_assess\_the\_effectiveness\_of\_restoration\_strategies\_in\_dryland\_ecosystems/links/566e9b7a08ae1a797e406bb1/Soil-indicators-to-assess-the-effectiveness-of-restoration-strategies-in-dryland-ecosystems.pdf
- 8- De Menna, F., Malagnino, R.A., Vittuari, M., Molari, G., Seddaiu, G., Deligios, P.A., Solinas, S., Ledda, L. Potential biogas production from artichoke byproducts in Sardinia, Italy (2016) *Energies*, 9 (2), pp. 1-11. <http://www.mdpi.com/1996-1073/9/2/92/htm> – DOI:10.3390/en9020092
  - 9- Demurtas, C.E., Seddaiu, G., Ledda, L., Cappai, C., Doro, L., Carletti, A., Roggero, P.P. Replacing organic with mineral N fertilization does not reduce nitrate leaching in double crop forage systems under Mediterranean conditions (2016) *Agriculture, Ecosystems and Environment*, 219, pp. 83-92. <http://www.sciencedirect.com/science/article/pii/S0167880915301742> – DOI: doi.org/10.1016/j.agee.2015.12.010
  - 10- Dono, G., Cortignani, R., Dell'Unto, D., Deligios, P., Doro, L., Lacetera, N., Mula, L., Pasqui, M., Quaresima, S., Vitali, A., Roggero, P.P. Winners and losers from climate change in agriculture: Insights from a case study in the Mediterranean basin (2016) *Agricultural Systems*, 147, pp. 65-75. <http://www.sciencedirect.com/science/article/pii/S0308521X16301536> DOI: doi.org/10.1016/j.agsy.2016.05.013
  - 11- Fenza, P., da Pelo, S., Buttau, C., Podda, F., Orrù, C., & Ghiglieri, G. (2016). Hydrogeological and hydrogeochemical modelling in the freatic aquifer of the Cixerri plain (Sardinia, Italy). *Rendiconti Online Societa Geologica Italiana*, 41, 54–57. <https://doi.org/10.3301/ROL.2016.91>
  - 12- Giadrossich, F., Cohen, D., Schwarz, M., Seddaiu, G., Contran, N., Lubino, M., Valdés-Rodríguez, O.A., Niedda, M. Modeling bio-engineering traits of *Jatropha curcas* L. (2016) *Ecological Engineering*, 89, pp. 40-48. <http://www.sciencedirect.com/science/article/pii/S0925857416300052> – DOI: doi.org/10.1016/j.ecoleng.2016.01.005
  - 13- Ghiglieri, G., Carletti, A., Da Pelo, S., Cocco, F., Funedda, A., Loi, A., Manta, F., Pittalis, D. Three-dimensional hydrogeological reconstruction based on geological depositional model: A case study from the coastal plain of Arborea (Sardinia, Italy) (2016) *Engineering Geology*, 207, pp. 103-114. <http://www.sciencedirect.com/science/article/pii/S0013795216300953> DOI: doi.org/10.1016/j.enggeo.2016.04.014
  - 14- Hoffmann, H., Zhao, G., Asseng, S., Bindi, M., Biernath, C., Constantin, J., Coucheney, E., Dechow, R., Doro, L., Eckersten, H., Gaiser, T., Grosz, B., Heinlein, F., Kassie, B.T., Kersebaum, K.-C., Klein, C., Kuhnert, M., Lewan, E., Moriondo, M., Nendel, C., Priesack, E., Raynal, H., Roggero, P.P., Rötter, R.P., Siebert, S., Specka, X., Tao, F., Teixeira, E., Trombi, G., Wallach, D., Weihermüller, L., Yeluripati, J., Ewert, F. Impact of spatial soil and climate input data aggregation on regional Yield Simulations (2016) *PLoS ONE*, 11 (4), art. no. 0151782. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0151782> - DOI: 10.1371/journal.pone.0151782
  - 15- Kipling, R.P., Virkajärvi, P., Breitsameter, L., Curnel, Y., De Swaef, T., Gustavsson, A.-M., Hennart, S., Höglind, M., Järvenranta, K., Minet, J., Nendel, C., Persson, T., Picon-Cochard, C., Rolinski, S., Sandars, D.L., Scollan, N.D., Sebek, L., Seddaiu, G., Topp, C.F.E., Twardy,

- S., Van Middelkoop, J., Wu, L., Bellocchi, G. Key challenges and priorities for modelling European grasslands under climate change (2016) *Science of the Total Environment*, 566-567, pp. 851-864. <http://www.sciencedirect.com/science/article/pii/S0048969716310750> – DOI: 10.1016/j.scitotenv.2016.05.144
- 16- Liebig, M.A., Franzluebbers, A.J., Alvarez, C., Chiesa, T.D., Lewczuk, N., Piñeiro, G., Posse, G., Yahdjian, L., Grace, P., Cabral, O.M.R., Martin-Neto, L., de Aragão Ribeiro Rodrigues, R., Amiro, B., Angers, D., Hao, X., Oelbermann, M., Tenuta, M., Munkholm, L.J., Regina, K., Cellier, P., Ehrhardt, F., Richard, G., Dechow, R., Agus, F., Widiarta, N., Spink, J., Berti, A., Grignani, C., Mazzoncini, M., Orsini, R., Roggero, P.P., Seddaiu, G., Tei, F., Ventrella, D., Vitali, G., Kishimoto-Mo, A., Shirato, Y., Sudo, S., Shin, J., Schipper, L., Savé, R., Leifeld, J., Spadavecchia, L., Yeluripati, J., Grosso, S.D., Rice, C., Sawchik, J. MAGGnet: An international network to foster mitigation of agricultural greenhouse gases (2016) *Carbon Management*, 7 (3-4), pp. 243-248. <http://www.tandfonline.com/doi/abs/10.1080/17583004.2016.1180586> – DOI: [dx.doi.org/10.1080/17583004.2016.1180586](http://dx.doi.org/10.1080/17583004.2016.1180586)
- 17- Marques, M.J., Schwilch, G., Lauterburg, N., Crittenden, S., Tesfai, M., Stolte, J., Zdruli, P., Doko, A., Zucca, C., Petursdottir, T., Evelpidou, N., Karkani, A., AsliYilmazgil, Y., Panagopoulos, T., Yirdaw, E., Kanninen, M., Rubio, J.L., Schmiedel, U. Multifaceted impacts of sustainable land management in drylands: A review (2016) *Sustainability (Switzerland)*, 8 (2), art. no. 177, . <http://www.mdpi.com/2071-1050/8/2/177/htm> DOI: 10.3390/su8020177
- 18- Mura, S., Malfatti, L., Greppi, G., Innocenzi, P. Ferrates for water remediation (2016) *Reviews in Environmental Science and Biotechnology*, pp. 1-21. Article in Press. <https://link.springer.com/article/10.1007/s11157-016-9416-8> – DOI: 10.1007/s11157-016-9416-8
- 19- Nguyen, T.P.L., Mula, L., Cortignani, R., Seddaiu, G., Dono, G., Viridis, S.G.P., Pasqui, M., Roggero, P.P. Perceptions of present and future climate change impacts on water availability for agricultural systems in the western mediterranean region (2016) *Water (Switzerland)*, 8 (11), art. no. 523, <http://www.mdpi.com/2073-4441/8/11/523/htm> – DOI:10.3390/w8110523
- 20- Nguyen, T.P.L., Seddaiu, G., Viridis, S.G.P., Tidore, C., Pasqui, M., Roggero, P.P. Perceiving to learn or learning to perceive? Understanding farmers' perceptions and adaptation to climate uncertainties (2016) *Agricultural Systems*, 143, pp. 205-216. <http://www.sciencedirect.com/science/article/pii/S0308521X16300014> - DOI: [doi.org/10.1016/j.agry.2016.01.001](http://doi.org/10.1016/j.agry.2016.01.001)
- 21- Nunes, A., Oliveira, G., Mexia, T., Valdecantos, A., Zucca, C., Costantini, E.A.C., Abraham, E.M., Kyriazopoulos, A.P., Salah, A., Prasse, R., Correia, O., Milliken, S., Kotzen, B., Branquinho, C. Ecological restoration across the Mediterranean Basin as viewed by practitioners (2016) *Science of the Total Environment*, 566-567, pp. 722-732. <http://www.sciencedirect.com/science/article/pii/S004896971631066X> – DOI: 10.1016/j.scitotenv.2016.05.136
- 22- Onofri, A., Seddaiu, G., Piepho, H.-P. Long-Term Experiments with cropping systems: Case studies on data analysis (2016) *European Journal of Agronomy*, 77, pp. 223-235. <http://www.sciencedirect.com/science/article/pii/S1161030116300399> – DOI: [doi.org/10.1016/j.eja.2016.02.005](http://doi.org/10.1016/j.eja.2016.02.005)

- 23- Pinna, M.V., Baronti, S., Miglietta, F., Pusino, A. Photooxidation of foramsulfuron: Effects of char substances (2016) *Journal of Photochemistry and Photobiology A: Chemistry*, 326, pp. 16-20. <http://www.sciencedirect.com/science/article/pii/S1010603015302689> DOI: doi.org/10.1016/j.jphotochem.2016.04.014
- 24- Pittalis, D., Carletti, A., Ghiglieri, G., Celico, F. The influence of hydrogeological properties, seawater intrusion and refreshing on the quality of groundwater used for irrigation in an agricultural coastal plain in North Sardinia, Italy (2016) *Environmental Earth Sciences*, 75 (11), art. no. 963. <https://link.springer.com/article/10.1007/s12665-016-5770-7> – DOI: 10.1007/s12665-016-5770-7
- 25- Pulighe, G., Bonati, G., Fabiani, S., Barsali, T., Lupia, F., Vanino, S., Nino, P., Arca, P., Roggero, P.P. Assessment of the Agronomic Feasibility of Bioenergy Crop Cultivation on Marginal and Polluted Land: A GIS-Based Suitability Study from the Sulcis Area, Italy (2016) *Energies*, 9 (11), art. no. 895, . <http://www.mdpi.com/1996-1073/9/11/895/htm> – DOI: 10.3390/en9110895
- 26- Roggero, P.P. IC-FAR - Linking long term observatories with crop system modelling for a better understanding of climate change impact and adaptation strategies for Italian cropping systems (2016) *European Journal of Agronomy*, 77, pp. 136-137. <http://www.sciencedirect.com/science/article/pii/S1161030116300880?via%3Dihub> – DOI: doi.org/10.1016/j.eja.2016.05.002
- 27- Seddaiu, G., Iocola, I., Farina, R., Orsini, R., Iezzi, G., Roggero, P.P. Long term effects of tillage practices and N fertilization in rainfed Mediterranean cropping systems: Durum wheat, sunflower and maize grain yield (2016) *European Journal of Agronomy*, 77, pp. 166-178. <http://www.sciencedirect.com/science/article/pii/S1161030116300429> – DOI: doi.org/10.1016/j.eja.2016.02.008
- 28- Zhao, G., Hoffmann, H., Yeluripati, J., Xenia, S., Nendel, C., Coucheney, E., Kuhnert, M., Tao, F., Constantin, J., Raynal, H., Teixeira, E., Grosz, B., Doró, L., Kiese, R., Eckersten, H., Haas, E., Cammarano, D., Kassie, B., Moriondo, M., Trombi, G., Bindi, M., Biernath, C., Heinlein, F., Klein, C., Priesack, E., Lewan, E., Kersebaum, K.-C., Rötter, R., Roggero, P.P., Wallach, D., Asseng, S., Siebert, S., Gaiser, T., Ewert, F. Evaluating the precision of eight spatial sampling schemes in estimating regional means of simulated yield for two crops (2016) *Environmental Modelling and Software*, 80, pp. 100-112. <http://www.sciencedirect.com/science/article/pii/S1364815216300421> – DOI: doi.org/10.1016/j.envsoft.2016.02.022
- 29- Zucca, C., Arrieta Garcia, S., Deroma, M., Madrau, S. Organic Carbon and Alkalinity Increase in Topsoil After Rangeland Restoration Through *Atriplex nummularia* Plantation (2016) *Land Degradation and Development*, 27 (3), pp. 573-582. <http://onlinelibrary.wiley.com/doi/10.1002/ldr.2378/full> – DOI: 10.1002/ldr.2378

## 2017

- 1- Abreu-Junior, C. H., Firme, L. P., Maldonado, C. A. B., de Moraes Neto, S. P., Alves, M. C., Muraoka, T., Boaretto, A. E., Gava, J. L., He, Z., Nogueira, T. A. R., Nogueira, T. A. R., & Capra, G. F. (2017). Fertilization using sewage sludge in unfertile tropical soils increased wood production in Eucalyptus plantations. *Journal of Environmental Management*, 203, 51–58. <https://doi.org/10.1016/j.jenvman.2017.07.074>

- 2- Afrasinei, G. M., Melis, M. T., Buttau, C., Bradd, J. M., Arras, C., & Ghiglieri, G. (2017). Assessment of remote sensing-based classification methods for change detection of salt-affected areas (Biskra area, Algeria). *Journal of Applied Remote Sensing*, 11(1), 016025-016025. doi:10.1117/1.JRS.11.016025
- 3- Afrasinei, G. M., Melis, M. T., Buttau, C., Arras, C., Zerrim, A., Guied, M., ... & Jarray, H. (2017). Classification Methods for Detecting and Evaluating Changes in Desertification-Related Features in Arid and Semi-arid Environments. In *Water and Land Security in Drylands* (pp. 269-289). Springer International Publishing. [https://doi.org/10.1007/978-3-319-54021-4\\_23](https://doi.org/10.1007/978-3-319-54021-4_23)
- 4- Arras, C., Melis, M. T., Afrasinei, G. M., Buttau, C., Carletti, A., & Ghiglieri, G. (2017). Evaluation and validation of SRTMGL1 and ASTER GDEM2 for two Maghreb regions (Biskra, Algeria and Medenine, Tunisia). In *Water and Land Security in Drylands* (pp. 291-301). Springer International Publishing. [https://link.springer.com/chapter/10.1007/978-3-319-54021-4\\_24](https://link.springer.com/chapter/10.1007/978-3-319-54021-4_24)
- 5- Bagella, S., & Podani, J. (2017). A large-scale assessment of *Isoetes histrix* swards in the Mediterranean basin. *Plant Sociology*, 54 (1), 129-136.  
<http://www.scienzadellavegetazione.it/sisv/documenti/Articolo/pdf/511.pdf> – DOI [10.7338/pls2017541/06](https://doi.org/10.7338/pls2017541/06)
- 6- Bagella, S., Sitzia, M., & Roggero, P. P. (2017). Soil fertilisation contributes to mitigating forest fire hazard associated with *Cistus monspeliensis* L.(rock rose) shrublands. *International Journal of Wildland Fire*, 26(2), 156-166. <https://doi.org/10.1071/WF16114>
- 7- Biddau, R., Cidu, R., Ghiglieri, G., Da Pelo, S., Carletti, A., & Pittalis, D. (2017). Nitrate occurrence in groundwater hosted in hard-rock aquifers: estimating background values at a regional scale. *Italian Journal of Geosciences*, 136(1), 113-124.  
<http://italianjgeo.geoscienceworld.org/content/136/1/113> - DOI: 10.3301/IJG.2016.03
- 8- Brillì, L., Bechini, L., Bindi, M., Carozzi, M., Cavalli, D., Conant, R., Dorich, C.D., Doro, L., Erhardt, F., Farina, R., Ferrise, R., Iocola, I., Seddaiu, G., Bellocchi, G. (2017). Review and analysis of strengths and weaknesses of agro-ecosystem models for simulating C and N fluxes. *Science of the Total Environment*, 598, 445-470.  
<https://doi.org/10.1016/j.scitotenv.2017.03.208>
- 9- Da Pelo, S., Ghiglieri, G., Buttau, C., Biddau, R., Cuzzocrea, C., Funedda, A., Carletti, A., Vacca, S., Cidu, R. (2017). Coupling of 3D hydrogeological modelling and geochemical mapping as an innovative approach to support management of aquifers. *Italian Journal of Engineering Geology and Environment*, Special Issue 2017. DOI: 10.4408/IJEGE.2017-01.S-04
- 10- Grau-Martínez, A., Torrentó, C., Carrey, R., Rodríguez-Escales, P., Domènech, C., Ghiglieri, G., ... & Otero, N. (2017). Feasibility of two low-cost organic substrates for inducing denitrification in artificial recharge ponds: Batch and flow-through experiments. *Journal of Contaminant Hydrology*, 198, 48-58. <https://doi.org/10.1016/j.jconhyd.2017.01.001>
- 11- Grosz, B, Dechow R, Gebbert S, Hoffmann H, Zhao G, Constantin J, Raynal H, Wallach D, Coucheney, E, Lewan E, Eckersten H, Specka X, Kersebaum KC, Nendel C, Kuhnert M, Yeluripati J, Haas E, Klatt S, Teixeira E, Bindi M, Trombi G, Moriondo M, Doro L, Roggero PP, Zhao Z, Wang E, Tao F, Rötter R, Kassie B, Cammarano D, Asseng S, Weihermüller L, Siebert S, Gaiser T, Ewert F, 2017. The implication of input data aggregation on up-scaling



- soil organic carbon changes. ENVIRONMENTAL MODELLING AND SOFTWARE, 96, 361-377. <https://doi.org/10.1016/j.envsoft.2017.06.046>.
- 12- Iocola I, Bassu S, Farina R, Antichi D, Basso B, Bindi M, Dalla Marta A., Danuso F, Doro L, Ferrise R, Giglio L, Ginaldi F, Mazzoncini M, Mula L, Orsini R, Corti G, Pasqui M, Seddaiu G., Tomozeiu R, Ventrella D, Villani G, Roggero PP, 2017. Can conservation tillage mitigate climate change impacts in Mediterranean cereal systems? A soil organic assessment using long term experiments. EUROPEAN JOURNAL OF AGRONOMY, 90, 96-107. <https://doi.org/10.1016/j.eja.2017.07.011>
- 13- L. Gutierrez (2017) Impacts of El Niño-Southern Oscillation on the wheat market: A global dynamic analysis. PLoS ONE 12(6): e0179086. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0179086> – DOI: [doi.org/10.1371/journal.pone.0179086](https://doi.org/10.1371/journal.pone.0179086)
- 14- Lai, R., Arca, P., Lagomarsino, A., Cappai, C., Seddaiu, G., Demurtas, C.E., Roggero, P.P. Manure fertilization increases soil respiration and creates a negative carbon budget in a Mediterranean maize (*Zea mays* L.)-based cropping system(2017) Catena, 151, pp. 202-212. <http://www.sciencedirect.com/science/article/pii/S0341816216305276> – DOI: [10.1016/j.catena.2016.12.013](https://doi.org/10.1016/j.catena.2016.12.013)
- 15- A. Pulina, R.Lai, L.Salis, G. Seddaiu, P.P. Roggero, g. Bellocchi, Modelling pasture production and soil temperature, water and carbon fluxes in Mediterranean grassland systems with the Pasture Simulation model, (2017) <http://onlinelibrary.wiley.com/doi/10.1111/gfs.12310/full> – DOI: 10.1111/gfs.12310
- 16- Ragnedda, M., & Ruiu, M. (2017). UK General Election 2015: dealing with austerity. School of Arts and Cultures (Online) Working Papers. [http://research.ncl.ac.uk/sacs-o\\_working\\_papers/currentissue/SACS-o\\_Ragnedda\\_Ruiu\\_1-22.pdf](http://research.ncl.ac.uk/sacs-o_working_papers/currentissue/SACS-o_Ragnedda_Ruiu_1-22.pdf)
- 17- Ruiu, M.L., Seddaiu, G., Roggero, P.P. Developing adaptive responses to contextual changes for sustainable agricultural management: The role of social capital in the Arborea district (Sardinia, Italy) (2017) Journal of Rural Studies, 49, pp. 162-170. <http://www.sciencedirect.com/science/article/pii/S0743016716301917> – DOI: [10.1016/j.jrurstud.2016.11.017](https://doi.org/10.1016/j.jrurstud.2016.11.017)
- 18- Sándor, R., Barcza, Z., Acutis, M., Doro, L., Hidy, D., Köchy, M., ... & Rolinski, S. (2017). Multi-model simulation of soil temperature, soil water content and biomass in Euro-Mediterranean grasslands: Uncertainties and ensemble performance. European Journal of Agronomy, 88, 22-40. <https://doi.org/10.1016/j.eja.2016.06.006>
- 19- Serrano, L., Reina, M., Quintana, X. D., Romo, S., Olmo, C., Soria, J. M., ... & Bagella, S. (2017). A new tool for the assessment of severe anthropogenic eutrophication in small shallow water bodies. Ecological Indicators, 76, 324-334. <http://www.sciencedirect.com/science/article/pii/S1470160X17300407> <https://doi.org/10.1016/j.ecolind.2017.01.034>
- 20- Toderi, M., Francioni, M., Seddaiu, G., Roggero, P. P., Trozzo, L., & D'Ottavio, P. (2017). Bottom-up design process of agri-environmental measures at a landscape scale: Evidence from case studies on biodiversity conservation and water protection. Land Use Policy, 68, 295-305. <https://doi.org/10.1016/j.landusepol.2017.08.002>
- 21- Zhao, C., Liu, B., Piao, S., Wang, X., Lobell, D. B., Huang, Y., Bassu S., & Durand, J. L. (2017). Temperature increase reduces global yields of major crops in four independent

estimates. *Proceedings of the National Academy of Sciences*, 201701762.  
<http://www.pnas.org/content/114/35/9326.short> - doi: 10.1073/pnas.17017621

## 2018

- 1- Afrasinei, G.M., Melis, M.T., Arras, C., Pistis, M., Buttau, C., Ghiglieri, G. Spatiotemporal and spectral analysis of sand encroachment dynamics in southern Tunisia (2018) *European Journal of Remote Sensing*, 51 (1), pp. 352-374. DOI: 10.1080/22797254.2018.1439343
- 2- Bagella, S., Caria, M. C., Beccarisi, L., & Zuccarello, V. (2018). Ecological responses of selected vascular plants to water chemistry parameters in habitat types 3120, 3130 and 3170\* (Habitat Directive 92/43/EEC). *Plant Biosystems*, 152(6), 1338–1345.  
<https://doi.org/10.1080/11263504.2018.1461697>
- 3- Brilli, L., Bechini, L., Bindi, M., Carozzi, M., Cavalli, D., Conant, R., Dorich, C.D., Doro, L., Ehrhardt, F., Farina, R., Ferrise, R., Fitton, N., Francaviglia, R., Grace, P., Iocola, I., Klumpp, K., Léonard, J., Martin, R., Massad, R.S., Recous, S., Seddaiu, G., Sharp, J., Smith, P., Smith, W.N., Soussana, J.-F., Bellocchi, G., Review and analysis of strengths and weaknesses of agro-ecosystem models for simulating C and N fluxes (2017) *Science of the Total Environment*, 598, pp. 445-470. DOI: 10.1016/j.scitotenv.2017.03.208
- 4- Capra, G.F., Tidu, S., Lovreglio, R., Certini, G., Salis, M., Bacciu, V., Ganga, A., Filzmoser, P., The impact of wildland fires on calcareous Mediterranean pedosystems (Sardinia, Italy) – An integrated multiple approach (2018) *Science of the Total Environment*, 624, pp. 1152-1162. DOI: 10.1016/j.scitotenv.2017.12.099
- 5- Castaldi, P., Silvetti, M., Manzano, R., Brundu, G., Roggero, P.P., Garau, G., 2018. Mutual effect of *Phragmites australis*, *Arundo donax* and immobilization agents on arsenic and trace metals phytostabilization in polluted soils. *GEODERMA*, 314, 63-72.  
<https://www.sciencedirect.com/science/article/pii/S0016706117311941> –  
<https://doi.org/10.1016/j.geoderma.2017.10.040>
- 6- Ehrhardt, F., Soussana, J.-F., Bellocchi, G., Grace, P., McAuliffe, R., Recous, S., Sándor, R., Smith, P., Snow, V., de Antoni Migliorati, M., Wu, L., & Zhang, Q. (2018). Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N<sub>2</sub>O emissions. *Global Change Biology*, 24(2), e603–e616.  
<https://doi.org/10.1111/gcb.13965>
- 7- Ergon, Å., Seddaiu, G., Korhonen, P., Virkajärvi, P., Bellocchi, G., Jørgensen, M., Østrem, L., Reheul, D., Volaire, F. How can forage production in Nordic and Mediterranean Europe adapt to the challenges and opportunities arising from climate change? (2018) *European Journal of Agronomy*, 92, pp. 97-106. <https://doi.org/10.1016/j.eja.2017.09.016>
- 8- Hamidov, A., Helming, K., Bellocchi, G., Bojar, W., Dalgaard, T., Ghaley, B.B., Hoffmann, C., Holman, I., Holzkämper, A., Krzeminska, D., Kværnø, S.H., Lehtonen, H., Niedrist, G., Øygarden, L., Reidsma, P., Roggero, P.P., Rusu, T., Santos, C., Seddaiu, G., Skarbøvik, E., Ventrella, D., Zarski, J., Schönhart, M., Impacts of climate change adaptation options on soil functions: A review of European case-studies (2018) *Land Degradation and Development*, . Article in Press. DOI: 10.1002/ldr.3006
- 9- Nogueira, T.A.R., Abreu-Junior, C.H., Alleoni, L.R.F., He, Z., Soares, M.R., Santos Vieira, C.D., Lessa, L.G.F., Capra, G.F. Background concentrations and quality reference values for

- some potentially toxic elements in soils of São Paulo State, Brazil (2018) *Journal of Environmental Management*, 221, pp. 10-19. DOI: 10.1016/j.jenvman.2018.05.048
- 10- Pesaresi, S., Biondi, E., & Bagella, S. (2018). Disentangling the concept of *Junco capitati-Isoëtetum histricis* Br.-Bl. 1936. *Plant Sociology*, 55(2), 31–44.  
<https://doi.org/10.7338/pls2018552/03>
- 11- Pittalis, D., Carrey, R., da Pelo, S., Carletti, A., Biddau, R., Cidu, R., Celico, F., Soler, A., Ghiglieri, G. Hydrogeological and multi-isotopic approach to define nitrate pollution and denitrification processes in a coastal aquifer (Sardinia, Italy) (2018) *Hydrogeology Journal*, pp. 1-20. Article in Press. <https://link.springer.com/content/pdf/10.1007%2Fs10040-018-1720-7.pdf>
- 12- Pulina, A., Lai, R., Seddaiu, G., Bertora, C., Rizzu, M., Grignani, C., Roggero, P.P., Global warming potential of a Mediterranean irrigated forage system: Implications for designing the fertilization strategy (2018) *European Journal of Agronomy*, 98, pp. 25-36.  
<https://doi.org/10.1016/j.eja.2018.05.002> DOI: 10.1016/j.eja.2018.05.002
- 13- Pulina, A., Lai, R., Salis, L., Seddaiu, G., Roggero, P.P., Bellocchi, G., Modelling pasture production and soil temperature, water and carbon fluxes in Mediterranean grassland systems with the Pasture Simulation model (2018) *Grass and Forage Science*, 73 (2), pp. 272-283. DOI: 10.1111/gfs.12310
- 14- Schils, R., Olesen, J. E., Kersebaum, K.-C., Rijk, B., Oberforster, M., Kalyada, V., Khitrykau, M., Gobin, A., Kirchev, H., Manolova, V., van Loon, M. P., & van Ittersum, M. K. (2018). Cereal yield gaps across Europe. *European Journal of Agronomy*, 101, 109–120.  
<https://doi.org/10.1016/j.eja.2018.09.003>
- 15- Seddaiu, G., Bagella, S., Pulina, A., Cappai, C., Salis, L., Rossetti, I., Lai, R., Roggero, P.P., Mediterranean cork oak wooded grasslands: synergies and trade-offs between plant diversity, pasture production and soil carbon (2018) *Agroforestry Systems*, pp. 1-16. Article in Press. DOI: 10.1007/s10457-018-0225-7
- 16- Zurita, M.L., Thomsen, D.C., Holbrook, N.J., Smith, T.F., Lyth, A., Munro, P.G., de Bruin, A., Seddaiu, G., Roggero, P.P., Baird, J., Plummer, R., Bullock, R., Collins, K., Powell, N. Global water governance and Climate Change: Identifying innovative arrangements for adaptive transformation (2018) *Water (Switzerland)*, 10 (1), art. no. 29,  
<http://www.mdpi.com/2073-4441/10/1/29> DOI: 10.3390/w10010029