




Serena Doni

Personal details	<p>Serena Doni</p> <p> [Redacted]</p> <p> [Redacted]</p> <p> [Redacted]</p> <p>[Redacted]</p> <p>Position: Researcher at CNR-Research Institute on Terrestrial Ecosystems (IRET), Research Area Pisa, Italy</p>
Work experience	<p>Topics - Soil biochemistry, quality of organic matter of soil and other environmental matrices, isolation and characterization of humus-enzyme complexes from soil to explore soil resilience, study of composting and vermicomposting processes of different organic residues and recycling into the soil, soil amendment with organic and mineral wastes; reuse of wastewater in agriculture, soil desertification and functional recover of degraded soil through biological practices. Soil and dredged sediment decontamination.</p> <p>27/12/2018 Permanent researcher at CNR-Research Institute on Terrestrial Ecosystems (IRET), Research Area, Pisa, Italy</p> <p>01/04/2014-26/12/2018 Temporary researcher at CNR-Research Institute for Ecosystem Studies (ISE), Research Area, Pisa, Italy</p> <p>08/11/2004-04/02/2014 Research contract at CNR-Research Institute for Ecosystem Studies (ISE), Research Area, Pisa, Italy</p>
Education	<p>Graduated in Biological Science at the University of Pisa with score of 110/110 with honours</p>
International experiences	<p>02/07/2015-23/07/2015 Short-term mobility (3 weeks) at the School of Life Sciences University of Warwick (UWA) UK</p> <p>03/11/2010-24/11/2010 Short-term mobility (3 weeks) at the School of Life Sciences University of Warwick (UWA) UK</p> <p>15/06/2009-07/07/2009 Short-term mobility (3 weeks) at the Department of Biological Science University of Warwick (UWA) UK</p> <p>30/09/2007-20/10/2007 Short-term mobility (3 weeks) at the Department of Biological Science University of Warwick (UWA) UK</p> <p>13/11/2005-25/11/2005 Stage (2 weeks) at the Department of Biological Science University of Warwick (UWA) UK.</p>
Collaborations in national and international projects	<p>2021-now Scientific responsible for CNR-IRET unit in the project funded by the Scapigliato srl for the development of a system for the treatment of the urban organic wastes and digestate with earthworms</p> <p>2019 –now Scientific responsible in the project funded by the San Rossore Massaciuccoli Regional Park Authority for the monitoring of the chemical-physical quality of agricultural land and control areas, with particular reference to climate change.</p> <p>2018 -now Member of scientific and administrative committees in the project LIFE ZEOWINE LIFE17 ENV/IT/427 Zeolite and winery waste as innovative product for wine production</p> <p>2018-now Participation in the project LIFE SUBSED LIFE17 ENV/IT/347 Sustainable substrate for agriculture from dredged marine sediments: from ports to pots</p> <p>2018-now Participation in the project LIFE AGRISED LIFE17 EMNV/IT/269 Use of dredged sediments for creating innovative growing media and techno-soils for plant nursery and soil rehabilitation</p> <p>2015-2018 Participation in the European project ERASMUS PLUS LANDCARE (2015-2018) Land Degradation and Rehabilitation in Mediterranean Environment - Enhancing the skills on land rehabilitation as a way of enhancing development and young employability</p> <p>2015-2020 Participation in the national project "Use of techniques of phytoremediation to eliminate the mercury in the soil" funded by the company Chemical Society Larderello SpA – Volterra.</p> <p>2013-2016 Participation in the European Project LIFE CLEANSED ENV/IT/000652 "Innovative Integrated Methodology for the use of decontaminated river sediments in plant nursing and road building" (0171072013-31/03/2016)</p> <p>2013-2015 Participation in the European project LIFE BIOREM LIFE11 ENV/IT/113 "Innovative System for the Biochemical Restoration and Monitoring of Degraded Soils"</p>

	<p>2009-2012 Participation in the European project "AGRIPORT" ECO/08/239065/SI2.532262 "Agricultural Reuse of Polluted Dredged Sediments".</p> <p>2006-2012 Participation at the project "Intervento Biologico per il recupero della discarica di Madonna dell'Acqua mediante tecniche naturali", Comune di San Giuliano Terme and Regione Toscana.</p> <p>2004-2006. Participation in the European project "Fitostabilizzazione e predisposizione dei fanghi biologici per la preparazione di tecnosuoli", Acque spa.</p> <p>2003. Participation in the European project "Gestione recupero funzionale di ambienti palustri e sistemi forestali mesofili nella tenuta di san Rossore", Provincia di Pisa.</p>
Patents	<p>Iannelli R, Masciandaro G, Ceccanti B, Bianchi V, Doni S (2012). Methodology for the treatment of dredging sediments through phyto-remediation and plant which realize this technique. PI2012A000013 National registration date: 01/01/2012.</p>
Oral presentations at National and International congresses	<ol style="list-style-type: none"> 1. Workshop "Viticoltura innovation- The variable rate technology to improving the distribution of organic fertilizer" Title: Trattamento e riciclo di scarti della filiera vitivinicola: esperienza del progetto LIFE ZEOWINE 16 December 2019. 2. Workshop "Biodiversità e consumo consapevole - Il ruolo della viticoltura sostenibile". Title: "LIFE ZEOWINE: ZEOLite and WINery waste as innovative product for wine production – LIFE17 ENV/IT/000427" Cantina Castelveccchi, Radda in Chianti – Siena 18 June 2019. 3. Global Symposium on Soil Erosion. "Zeolite effects on soil organic carbon and structure against erosion in vineyards" 15-17 May 2019, FAO HQ, Rome, Italy. 4. Workshop "Innovazione in biodiversità: lo studio dei suoli per la crescita di una viticoltura sostenibile". Title: "Il progetto LIFE ZEOWINE: Zeolite and Winery waste as innovative product for wine production" Azienda Conti degli Azzoni, Montefano - Macerata (18/12/2018) 5. Invited spiker, Conference Landcare for the future organized within the framework of the Erasmus + Strategic Partnership Landcare number: 2015-1-ES01-KA203-01621. Santiago de Compostela, dal 16 al 18 luglio 2018. Title: The videos as educational tool in the Landcare project. 6. Invited spiker, Workshop Training in land degradation and rehabilitation: current challenges and new educational resources. University of Lisbon (Portugal), 26 October 2017. Title: "Online learning tools (SPOC & MOOC) encouraging interaction between learners, educators and wider public". 7. III Workshop Nazionale Bonifica, recupero ambientale e sviluppo del territorio: esperienze a confronto sul fitorimedio. Title: "Il fitorimedio dei sedimenti di dragaggio e loro applicazione in campo agronomico e ambientale", Roma, Italia, 17-18 March 2016. 8. Seminar at the CNR-ISE. Title: "Biochemical monitoring in the rehabilitation processes of soil and sediment". Verbania, e programma dell'evento. 9. Workshop BIOREM project: first results". Title: "Innovative System for the Biochemical Restoration and Monitoring of Degraded Soils". Azienda Agricola Sperimentale Dimostrativa Pantanello Mataponto. 10 March 2015. 10. Workshop on Life projects "Dal confronto di esperienze diverse lo sviluppo di tecniche sostenibili". Title: "Il progetto BIO-REM" Faenza (RA), 22 January 2015. 11. 14th International Conference on Environmental Science and Technology CEST2015. Title: "Bioactivators as a potential strategy for dredged marine sediment recovery". Rhodes, Greece, 3-5 September 2015. 12. Workshop TOSCANA & AMBIENTE La sfida europea dei progetti LIFE. Title: "Innovative System for the Biochemical Restoration and Monitoring of Degraded Soils". Firenze, 24 October 2014 13. 4th International Congress EUROSOL. Title: "Decontamination and functional reclamation of dredged brackish sediments". Bari, Italy, 2-6 July 2012. 14. International Symposium on Sanitary and Environmental Engineering. Title: "Applicazione di tecniche naturali per la decontaminazione di sedimenti marini di dragaggio". Firenze, 24-27 June 2008. 15. Progetto di alternanza scuola lavoro (convenzione tra CNR-ISE e Istituto Superiore di Istruzione Statale Antonio Pesenti di Cascina. Title: "Applicazione di metodiche ufficiali per la determinazione della carica microbica del terreno". Pisa, 16/01/2008. 16. Congress: "Il Paesaggio Rurale tra agricoltura e patrimonio culturale". Title: "Ricerca e applicazione di adeguati strumenti di valorizzazione paesaggistico-funzionale del territorio: le buone pratiche agricole e la biodiversità". Centro studi I Cappuccini. San Miniato, 30 March 2006. 17. Workshop "Biodiversità rurale". Centro Europeo Sperimentale per l'Agricoltura Biologica. Title: "Caratterizzazione dei complessi umo-enzimatici del terreno ai fini della valutazione del livello di degradazione antropica". Castelfalfi, Montaione, (Fi), 22-23 July 2005. 18. Workshop "Biodiversità rurale". Centro Europeo Sperimentale per l'Agricoltura Biologica. Title: Training of young people in environmental research. Castelfalfi, Montaione, (Fi), 22-23 July 2005. 19. ECOMONDO Fiera internazionale del recupero di materia ed energia e dello sviluppo

JCR Publications
H index: 20 Scopus

- sostenibile. Title: "Uso di tecniche analitiche integrate per la caratterizzazione dei complessi umo-enzimatici". Rimini 27 October 2005.
20. XV Settimana della Cultura Scientifica. Title: "Determinazione di parametri legati al ciclo del carbonio". CNR of Pisa. 14-20 March 2005.
21. XV Settimana della Cultura Scientifica. Title: "Il ruolo del lombrico nella valorizzazione dei rifiuti organici e nel recupero di suoli degradati". presso il CNR- of Pisa. 14-20 March 2005.
1. Chen, H., Wang, F., Chen, H., ...Doni, S., Corti, A. Specific biotests to assess eco-toxicity of biodegradable polymer materials in soil. *Journal of Environmental Sciences (China)*, 2021, 105, pp. 150–162.
2. Peruzzi, E., Macci, C., Doni, S., ...Zelari, L., Masciandaro, G. Posidonia oceanica based-compost and dredged sediments as a growth substrate for ornamental plants *Acta Horticulturae*, 2021, 1305, pp. 317–324.
3. Macci, C., Peruzzi, E., Doni, S., Vannucchi, F., Masciandaro, G. Landfarming as a sustainable management strategy for fresh and phytoremediated sediment. *Environmental Science and Pollution Research*, 2021.
4. Peruzzi, E., Macci, C., Doni, S., Zelari, L., Masciandaro, G. Co-composting as a Management Strategy for Posidonia oceanica Residues and Dredged Sediments. *Waste and Biomass Valorization*, 2020, 11(9), pp. 4907–4919.
5. Giannini, V., Peruzzi, E., Masciandaro, G., Doni S., Macci C., Bonari, E., Silvestri, N. Comparison among different rewetting strategies of degraded agricultural peaty soils: Short-term effects on chemical properties and ecoenzymatic activities. *Agronomy*, 2020, 10(8), 1084.
6. Emran, M., Doni, S., Macci, C., ...Rashad, M., Gispert, M. Susceptible soil organic matter, SOM, fractions to agricultural management practices in salt-affected soils. *Geoderma*, 2020, 114257.
7. Pecorini, I., Peruzzi, E., Albini, E., Doni S., Macci, Masciandaro, G., Iannelli, R. Evaluation of MSW compost and digestate mixtures for a circular economy application. *Sustainability (Switzerland)*, 2020, 12(7), 3042.
8. Macci, C., Peruzzi, E., Doni, S., Masciandaro, G. Monitoring of a long term phytoremediation process of a soil contaminated by heavy metals and hydrocarbons in Tuscany. *Environmental Science and Pollution Research*, 2020, 27(1), pp. 424–437.
9. Doni, S., Gispert, M., Peruzzi, E., ...Masini, C.M., Masciandaro G. Impact of natural zeolite on chemical and biochemical properties of vineyard soils. *Soil Use and Management*, 2020.
10. Macci, C., Peruzzi, E., Doni, S., Masciandaro, G. Monitoring of a long term phytoremediation process of a soil contaminated by heavy metals and hydrocarbons in Tuscany. (2019) *Environmental Science and Pollution Research* <https://dx.doi.org/10.1007/s11356-019-06836-x>.
11. Peruzzi, E., Macci, C., Doni, S., Zelari, L., Masciandaro, G Co-composting as a Management Strategy for Posidonia oceanica Residues and Dredged Sediments. (2019) *Waste and Biomass Valorization* doi/10.1007/s12649-019-00822-7.
12. Tozzi F., Pecchioli S., Renella G., Melgarejo P., Legua P., Macci C., Doni S., Masciandaro G., Giordani E., Lenzi A. Remediated marine sediment as growing medium for lettuce production: assessment of agronomic performance and food safety in a pilot experiment. (2019) *Journal of the Science of Food and Agriculture*, DOI 10.1002/jsfa.9815.
13. Doni S., Macci C., Martinelli C., Iannelli R., Brignoli P., Lampis S., Andreolli M., Vallini G., Masciandaro G. Combination of sediment washing and bioactivators as a potential strategy for dredged marine sediment recovery. (2018) *Ecological Engineering* 125, pp. 26-37.
14. Mattei, P., Gnesini, A., Gonnelli, C., Marraccini, C., Masciandaro, G., Macci, C., Doni, S., Iannelli, R., Lucchetti, S., Nicese, F.P., Renella, G. Phytoremediated marine sediments as suitable peat-free growing media for production of red robin photinia (*Photinia x fraseri*) (2018) *Chemosphere*, 201, pp. 595-602.
15. Gispert, M., Pardini, G., Emran, M., Doni, S., Masciandaro, G. Seasonal evolution of soil organic matter, glomalin and enzymes and potential for C storage after land abandonment and renaturalization processes in soils of NE Spain (2018) *Catena*, 162, pp. 402-413.
16. Gispert, M., Pardini, G., Coldecarrera, M., Emran, M., Doni, S. Water erosion and soil properties patterns along selected rainfall events in cultivated and abandoned terraced fields under renaturalisation (2017) *Catena*, 155, pp. 114-126.
17. Peruzzi, E., Macci, C., Doni, S., Iannelli, R., Masciandaro, G. Stabilization process in reed bed systems for sludge treatment (2017) *Ecological Engineering*, 102, pp. 381-389.
18. Doni, S., Macci, C., Longo, V., Souid, A., Garcia, C., Masciandaro, G. Innovative system for biochemical monitoring of degraded soils restoration (2017) *Catena*, 152, pp. 173-181.
19. Pardini, G., Gispert, M., Emran, M., Doni, S. Rainfall/runoff/erosion relationships and soil properties survey in abandoned shallow soils of NE Spain (2017) *Journal of Soils and Sediments*, 17

(2), pp. 499-514.

21. Mattei, P., D'Acqui, L.P., Nicese, F.P., Lazzerini, G., Masciandaro, G., Macci, C., Doni, S., Sarteschi, F., Giagnoni, L., Renella, G. Use of phytoremediated sediments dredged in maritime port as plant nursery growing media (2017) *Journal of Environmental Management*, 186, pp. 225-232.
22. Macci, C., Peruzzi, E., Doni, S., Poggio, G., Masciandaro, G. The phytoremediation of an organic and inorganic polluted soil: A real scale experience (2016) *International Journal of Phytoremediation*, 18 (4), pp. 378-386.
23. Macci, C., Doni, S., Peruzzi, E., Mennone, C., Masciandaro, G. Biostimulation of Soil Microbial Activity Through Organic Fertilizer and Almond tree Association (2016) *Land Degradation and Development*, 27 (2), pp. 335-345.
24. Benitez, E., Nogales, R., Doni, S., Masciandaro, G., Moreno, B. Biochemically active humic substances in contrasting agricultural managements (2016) *Spanish Journal of Agricultural Research*, 14 (3), art. no. e03SC01, 4 p.
25. Moreno, B., Cañizares, R., Macci, C., Doni, S., Masciandaro, G., Benitez, E. Molecular tools to understand the bioremediation effect of plants and earthworms on contaminated marine sediments (2015) *Journal of Hazardous Materials*, 300, pp. 398-405.
26. Doni, S., Macci, C., Peruzzi, E., Iannelli, R., Masciandaro, G. Heavy metal distribution in a sediment phytoremediation system at pilot scale (2015) *Ecological Engineering*, 81, pp. 146-157.
27. Peruzzi, E., Macci, C., Doni, S., Volpi, M., Masciandaro, G. Organic matter and pollutants monitoring in reed bed systems for sludge stabilization: a case study (2015) *Environmental Science and Pollution Research*, 22 (4), pp. 2447-2454.
28. Macci, C., Peruzzi, E., Doni, S., Iannelli, R., Masciandaro, G. Ornamental plants for micropollutant removal in wetland systems (2015) *Environmental Science and Pollution Research*, 22 (4), pp. 2406-2415.
29. Liu, H., Chen, H., Yao, J., Yuan, Z., Wang, F., Doni, S., Choi, M.M.F. Molecular detection and microcalorimetric analysis of soil microbial community along an oil contamination gradient (2015) *Fresenius Environmental Bulletin*, 24 (2), pp. 451-459.
30. Doni, S., Macci, C., Peruzzi, E., Ceccanti, B., Masciandaro, G. Factors controlling carbon metabolism and humification in different soil agroecosystems (2014) *Scientific World Journal*, 2014, art. no. 416074
31. Masciandaro, G., Di Biase, A., Macci, C., Peruzzi, E., Iannelli, R., Doni, S. Phytoremediation of dredged marine sediment: Monitoring of chemical and biochemical processes contributing to sediment reclamation (2014) *Journal of Environmental Management*, 134, pp. 166-174.
32. Masciandaro, G., Peruzzi, E., Doni, S., Macci, C. Fertigation with Wastewater and Vermicompost: Soil Biochemical and Agronomic Implications (2014) *Pedosphere*, 24 (5), pp. 625-634.
33. Nielsen, S., Peruzzi, E., Macci, C., Doni, S., Masciandaro, G. Stabilisation and mineralisation of sludge in reed bed systems after 10-20 years of operation (2014) *Water Science and Technology*, 69 (3), pp. 539-545.
34. Johnson-Rollings, A.S., Wright, H., Masciandaro, G., Macci, C., Doni, S., Calvo-Bado, L.A., Slade, S.E., Vallin Plou, C., Wellington, E.M.H. Exploring the functional soil-microbe interface and exoenzymes through soil metaexoproteomics (2014) *ISME Journal*, 8 (10), pp. 2148-2150.
35. Masciandaro, G., Macci, C., Peruzzi, E., Ceccanti, B., Doni, S. Organic matter-microorganism-plant in soil bioremediation: A synergic approach (2013) *Reviews in Environmental Science and Biotechnology*, 12 (4), pp. 399-419.
36. Peruzzi, E., Nielsen, S., Macci, C., Doni, S., Iannelli, R., Chiarugi, M., Masciandaro, G. Organic matter stabilization in reed bed systems: Danish and Italian examples (2013) *Water Science and Technology*, 68 (8), pp. 1888-1894.
37. Yu, C., Yao, J., Cai, M., Wang, F., Masakorala, K., Liu, H., Blake, R.E., Doni, S., Ceccanti, B. Functional gene expression of oil-degrading bacteria resistant to hexadecane toxicity (2013) *Chemosphere*, 93 (7), pp. 1424-1429.
38. She, W., Yao, J., Wang, F., Cai, M., Wang, J., Song, C., Ceccanti, B., Doni, S. Microcalorimetric investigation of effects of petroleum pollution on soil microbial activity (2013) *Chinese Journal of Environmental Engineering*, 7 (9), pp. 3624-3628.
39. Gispert, M., Emran, M., Pardini, G., Doni, S., Ceccanti, B. The impact of land management and abandonment on soil enzymatic activity, glomalin content and aggregate stability (2013) *Geoderma*, 202-203, pp. 51-61.
40. Macci, C., Doni, S., Peruzzi, E., Bardella, S., Filippis, G., Ceccanti, B., Masciandaro, G. A real-scale soil phytoremediation (2013) *Biodegradation*, 24 (4), pp. 521-538.
41. Doni, S., Macci, C., Peruzzi, E., Iannelli, R., Ceccanti, B., Masciandaro, G. Decontamination and functional reclamation of dredged brackish sediments (2013) *Biodegradation*, 24 (4), pp. 499-512.
42. Macci, C., Doni, S., Bondi, G., Davini, D., Masciandaro, G., Pistoia, A. Effects of wild boar (*Sus scrofa*) grazing on soil properties in Mediterranean environment (2012) *Catena*, 98, pp. 79-86.
43. Macci, C., Doni, S., Peruzzi, E., Ceccanti, B., Masciandaro, G. Bioremediation of polluted soil

- through the combined application of plants, earthworms and organic matter (2012) *Journal of Environmental Monitoring*, 14 (10), pp. 2710-2717.
44. Salvato, M., Borin, M., Doni, S., Macci, C., Ceccanti, B., Marinari, S., Masciandaro, G. Wetland plants, micro-organisms and enzymatic activities interrelations in treating N polluted water (2012) *Ecological Engineering*, 47, pp. 36-43.
 45. Guo, H., Yao, J., Cai, M., Qian, Y., Guo, Y., Richnow, H.H., Blake, R.E., Doni, S., Ceccanti, B. Effects of petroleum contamination on soil microbial numbers, metabolic activity and urease activity (2012) *Chemosphere*, 87 (11), pp. 1273-1280.
 46. Doni, S., MacCi, C., Peruzzi, E., Arenella, M., Ceccanti, B., Masciandaro, G. In situ phytoremediation of a soil historically contaminated by metals, hydrocarbons and polychlorobiphenyls (2012) *Journal of Environmental Monitoring*, 14 (5), pp. 1383-1390.
 47. Macci, C., Doni, S., Peruzzi, E., Masciandaro, G., Mennone, C., Ceccanti, B. Almond tree and organic fertilization for soil quality improvement in southern Italy (2012) *Journal of Environmental Management*, 95 (SUPPL.), pp. S215-S222.
 48. Doni, S., Macci, C., Chen, H., Masciandaro, G., Ceccanti, B. Isoelectric focusing of β -glucosidase humic-bound activity in semi-arid Mediterranean soils under management practices (2012) *Biology and Fertility of Soils*, 48 (2), pp. 183-190.
 49. Masciandaro, G., Macci, C., Doni, S., Ceccanti, B. Role of humo-enzyme complexes in restoring of soil ecosystems (2012) *Environmental Science and Engineering (Subseries: Environmental Science)*, (9783642211614), pp. 21-35.
 50. Doni, S., Macci, C., Masciandaro, G., Ceccanti, B. IEF technique to study the β -glucosidase-humic complexes in organic and mineral amended soils (2012) *Environmental Science and Engineering (Subseries: Environmental Science)*, (9783642211614), pp. 37-49.
 51. Peruzzi, E., Masciandaro, G., Macci, C., Doni, S., Ceccanti, B. Pollutant monitoring in sludge treatment wetlands (2011) *Water Science and Technology*, 64 (7), pp. 1558-1565.
 52. Peruzzi, E., Masciandaro, G., Macci, C., Doni, S., Ravelo, S.G.M., Peruzzi, P., Ceccanti, B. Heavy metal fractionation and organic matter stabilization in sewage sludge treatment wetlands (2011) *Ecological Engineering*, 37 (5), pp. 771-778.
 53. Bianchi, V., Ceccanti, B., Masciandaro, G., Doni, S., Macci, C., Iannelli, R. Coupling vermiremediation with phytoremediation technology to enhance the efficiency of reclamation of polluted marine sediments (2010) *International Journal of Global Environmental Issues*, 10 (3-4), pp. 225-238.
 54. Masciandaro, G., Macci, C., Doni, S., Ceccanti, B. Use of earthworms (*Eisenia fetida*) to reduce phytotoxicity and promote humification of pre-composted olive oil mill wastewater (2010) *Journal of the Science of Food and Agriculture*, 90 (11), pp. 1879-1885.
 55. Bianchi, V., Masciandaro, G., Ceccanti, B., Doni, S., Iannelli, R. Phytoremediation and bio-physical conditioning of dredged marine sediments for their re-use in the environment (2010) *Water, Air, and Soil Pollution*, 210 (1-4), pp. 187-195.
 56. Masciandaro, G., Bianchi, V., Macci, C., Doni, S., Ceccanti, B., Iannelli, R. Potential of on-site vermicomposting of sewage sludge in soil quality improvement (2010) *Desalination and Water Treatment*, 23 (1-3), pp. 123-128.
 57. Masciandaro, G., Bia
 58. nchi, V., Macci, C., Doni, S., Ceccanti, B., Iannelli, R. Potential of on-site vermicomposting of sewage sludge in soil quality improvement (2010) *Desalination and Water Treatment*, 23 (1-3), pp. 123-128.
 59. Peruzzi, E., Macci, C., Doni, S., Masciandaro, G., Peruzzi, P., Aiello, M., Ceccanti, B. *Phragmites australis* for sewage sludge stabilization (2009) *Desalination*, 246 (1-3), pp. 110-119.
 60. Ceccanti, B., Doni, S., Macci, C., Cercignani, G., Masciandaro, G. Characterization of stable humic-enzyme complexes of different soil ecosystems through analytical isoelectric focussing technique (IEF) (2008) *Soil Biology and Biochemistry*, 40 (9), pp. 2174-2177.
 61. Masciandaro, G., Macci, C., Doni, S., Maserti, B.E., Leo, A.C.-B., Ceccanti, B., Wellington, E. Comparison of extraction methods for recovery of extracellular β -glucosidase in two different forest soils (2008) *Soil Biology and Biochemistry*, 40 (9), pp. 2156-2161.
 62. Ceccanti, B., Masciandaro, G., Garcia, C., MacCi, C., Doni, S. Soil bioremediation: Combination of earthworms and compost for the ecological remediation of a hydrocarbon polluted soil (2006) *Water, Air, and Soil Pollution*, 177 (1-4), pp. 383-397.
- Other publications
1. Sandra Grisell Mora-Ravelo, Grazia Masciandaro, Eleonora Peruzzi, Brunello Ceccanti, Cristina Macci, Serena Doni. Closing in organic waste water treatment with using sludge fitomineralization *Phragmites australis*. *Acta Universitaria* (In Spanish). Nr. pagine vol 26 – pp.18-23. Codice identificativo (ISBN o ISSN): ISSN online 2007-9621. (2016). DOI: <https://doi.org/10.15174/au.2016.973>
 2. Doni S., Macci C., Peruzzi E., Ceccanti B., Masciandaro G. Factors controlling carbon metabolism and humification in different soil agroecosystems. In: *The Scientific World Journal*

(Hindawi). Authors: Altre informazioni: Open access. (2014). ISSN: 1537-744X DOI:10.1155/2014/416074

3. Bondi G., Peruzzi E., Macci C., Doni S., Masciandaro G., Pistoia A. Assessment of overgrazing on degradation of sloping soil. In: *Analele Univeristatii Bioterra* Volume 10. Codice identificativo (ISBN o ISSN): 1582-0254. (2013) pp. 1-5.

4. Bianchi V., Ceccanti B., Masciandaro Grazia, Doni S., Macci C. and Iannelli R. (2010) "Coupling vermiremediation with phytoremediation technologies to enhance the efficiency of polluted marine sediments reclamation". *International Journal of Environmental Engineering (IJEE)*, vol. 10, No 3/4, pp. 225-238.

5. Masciandaro G., Bianchi V., Macci C., Peruzzi E., Doni S., Ceccanti B., Iannelli R. (2010). Ecological and Agronomical Perspectives of Vermicompost Utilization in Mediterranean Agroecosystems. *Dynamic Soil, Dynamic Plant*, 4 (1), 76-82

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Additional information	<p>2017-2023 Enabling for National Scientific Associate University Professor (Band II) in the sector competition 07 / E1 "Agricultural Chemistry, Agricultural Genetics and Soil Science"</p> <p>2009-now Reviewed paper for several international journals e.g. "Waste Management and Research", "Biodegradation", "Agriculture, Ecosystems and Environment", "Applied Soil and Ecology", "Waste management", "African Journal of biotechnology", "Catena", "Journal of Hazardous Materials", "Water Science and Tecnology", "African Journal of Biotechnology"; "International Journal of Environmental Engineering", "Journal of Agriculture and Biological Sciences", "International journal of environment and waste management"</p> <p>2005-2011 Lessons about Ecology and Soil Enzymology at University of Pisa</p> <p>2000-2012 Supervisor of High School students, Biology and Agronomy students, Supervisor of Biology, Agronomy and Environmental Science Thesis and PhD (more than 40)</p> <p>2011-2012 Supervisor of students of "Instituto de Educacion Secundaria "Juan Carlos I" Murcia (Spain) in the training program "Leonardo da Vinci"</p> <p>2012. Winner for Tuscany region at the Italiacamp competition "C. Macci, E. Peruzzi, S. Doni, G. Masciandaro, B. Ceccanti e R. Iannelli. "RESET Recupero Ecologico Sedimenti E Tecno-suolo". Stati generali del centro nord. Un'idea per il paese. Università degli studi di Verona. 1 Dic.2012.</p>
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