

Ph.D.	Sofia Maria Muscarella
Photo	
Phone	+39 33894296577
E-mail	sofiamaria.muscarella@unipa.it
Orcid ID	https://orcid.org/0000-0002-8202-1598
Location	Department of Agricultural, Food and Forestry Sciences (SAAF), Viale delle Scienze, Building 4, Palermo (PA), 90128, Italy
Profile	Bachelor's degree in <i>Agricultural Sciences and Technologies</i> , 2018; Master's degree in <i>Agricultural Productions and Technologies</i> , 2020; Ph.D. in Biodiversity in Agriculture and Forestry, 2024 - AGRI-06/B Chimica Agraria (ex GR/13)
Expertise	Soil physiochemical and biochemical analysis; Water and Plant analysis; Knowledge of the use of GC, HPLC, MP-AES, spectrophotometer, and ATR-FTIR;
Advisor	Prof. Vito Armando Laudicina
Co-advisor	Prof. Giorgio Mannina; Prof. Antonio Delgado García
Thesis topics	Resource recovery from wastewater and their reuse for agricultural purposes
Research interests	Soil fertility, nutrient recovery from wastewater, sustainable agriculture, sewage sludge compost.
Research activity	My research activity concerns the recovery of nitrogen and phosphorus, and sewage sludge from wastewater and their potential reuse as fertilizers to improve soil fertility within the circular economy concept.
Link to publications	https://doi.org/10.1007/978-3-031-63353-9_3 https://doi.org/10.1007/978-3-031-63353-9_4 https://doi.org/10.1007/978-3-031-63353-9_80 https://doi.org/10.1007/978-3-031-63353-9_81 https://doi.org/10.1007/978-3-031-63353-9_7 https://doi.org/10.1016/j.scp.2024.101659 https://doi.org/10.1016/j.scitotenv.2024.172259 https://doi.org/10.1002/jpln.202300252 https://doi.org/10.3390/w15193479 https://doi.org/10.3390/agriculture13040764 https://doi.org/10.1016/j.micromeso.2023.112434 https://doi.org/10.1016/j.jenvman.2021.114194 https://doi.org/10.1016/B978-0-323-99920-5.00012-3 https://doi.org/10.1016/B978-0-323-99920-5.00008-1 https://doi.org/10.3390/w14020156 https://doi.org/10.3390/w13233413 https://doi.org/10.1016/j.biortech.2021.125812 https://doi.org/10.3390/w13070946