

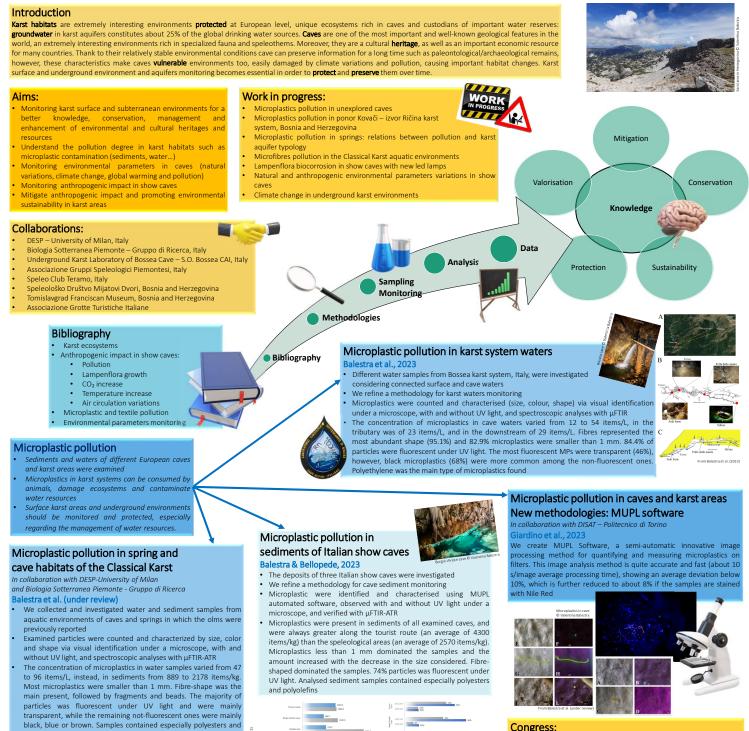
PhD Day - PhD in Civil and Environmental Engineering - 38 cycle

Anthropogenic impact in karst environments Valentina Balestra¹



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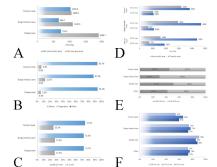
Tutors: Rossana Bellopede and Adriano Fiorucci



Research pubblished:

copolymers

- Balestra, V., & Bellopede, R. (2023). Microplastics in caves: A new threat in the most famous geo-heritage in the world. Analysis and comparison of Italian show caves deposits. Journal of Environmental Management, 342, 118189
- Balestra, V., Vigna, B., De Costanzo, S., Bellopede, R. (2023). Preliminary investigations of microplastic pollution in karst systems, from surface watercourses to cave waters. Journal of Contaminant Hydrology, 252, 104117
- Hydrology, 252, 104117 Giardino, M., Balestra, V., Janner, D., Bellopede, R. (2023). Automated method for routine microplastic detection and quantification. Science of The Total Environment, 859, 160036
- Balestra, V., Galbiati, M., Lapadula, S., Zampieri, V., Cassarino, F., Gajdošová, M., Barzaghi, B., Manenti, R., Ficetola, G.F., Bellopede, R. (under review). Microplastic pollution in groundwater and springs: a threat to protected habitats and species. Investigations in the olm habitats



SHOWCAVE - MIUR PRIN 2017: A multidisciplinary research project to study, classify and mitigate the environmental impact in tourist caves PRIORITY Plastics Monitoring Detection Remediation Recovery - COST ACTION CA20101 : a science and technology research network focused on developing, implementing, and consolidating strategies to tackle the global challenges of micro- and nanoplastics in the environment

PRIQRITY



 New threats in the Inteste Mark (Mary, pondular by microplastics in groundwaters and springs
3* INTERNATIONAL CONGRESS OF KARST, SPELEOLOGY AND VALORISATION OF NATURAL HERITAGE "VALUATING AND PROTECTING THE KARSTIC HERITAGE BETWEEN RIGHT AND OBLIGATION, RABAT, 2-5 NOVEMBER 2023

 Biocorrosion of speleothems in show caves: analysis of young speleothems exposed to two years of new LED lights
COVID-19 pandemic: an opportunity to monitor the

> 18° INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE &

 The invisible environmental impact of tourism in show caves: microplastic pollution in three Italian show caves
SIMP, SGI, SOGEI, AIV JOINT CONGRESS "THE GEOSCIENCE PARADIGM: RESOURCES, RISK AND FUTURE PERSPECTIVES", POTENZA, 19-21 SEPTEMBER 2023
New threats in the Trieste Karst (Italy): pollution by

TECNOLOGY, ATHENS, 30 AUGUST-2 SEPTEMBER 2023

- naturalness of show caves • Microplastic pollution in the Trieste Karst (Italy) protected
- habitats: preliminary analysis of cave and spring water sediments
- The Underground Karst Laboratories of Bossea Cave: more than 50 years of collaborations and research
- Environmental parameters monitoring in the oldest show cave of Italy: Bossea Cave