

## **Doctoral thesis summary**

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Title of the thesis	Solar disinfection of secondary effluent and the subsequent bacterial regrowth: considerations, limitations and environmental perspectives
Structural unit	Institute of Textile Research and Industrial Cooperation of Terrassa (INTEXTER)
Programme	Environmental Engineering
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focusing on the post-in solar disinfection, as windicator microorganis manner of delivery (corphotoreactivation and to photoreactors with reciminimization. The finding wastewater disinfection	als with the solar disinfection of synthetic secondary effluent under laboratory controlled conditions, radiation bacterial regrowth. The influence of various internal and external factors and their effect on reli as bacterial regrowth kinetics are the subject under question. With the aid of a common fecal m, the effects of light intensity, temperature, initial bacterial concentration, light energy (wavelength), titinuous-intermittent) were investigated. Also, the post-treatment events, such as dark repair, he survival in natural water matrices were assessed, along with the use of technical means (flow reulation) and advanced oxidation processes (photo-Fenton and sonication) for regrowth risk ngs provided valuable output, conclusions on the suitability of solar irradiation as a secondary in technique, indicating the limitations of its applicability, the considerations on the treatment environmental perspectives.
Place Thessaloniki	Date 25/06/2014

Signature