



# A rapid method for the identification and classification of microplastics based on Fourier Transform Infrared PhotoAcoustic Spectroscopy (FTIR-PAS)

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## Generation and dispersion of microplastics in terrestrial environments

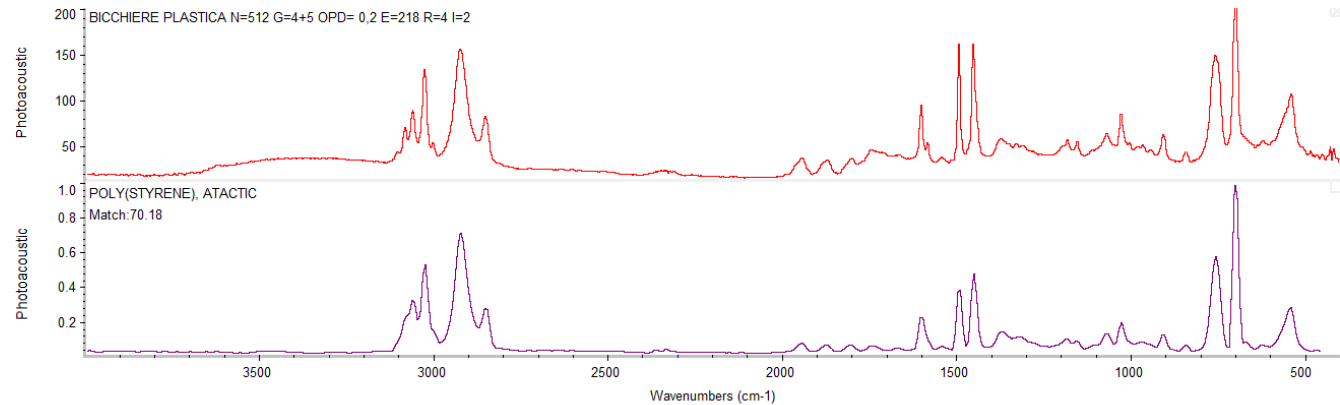
(Kumar et al. 2020, <https://doi.org/10.1016/j.envpol.2020.114980> )





FTIR Spectrum GX spectrometer with photoacoustic detector

### Type of analysed microplastics (examples)



Index	Match	Compound Name	Library Name
1 46	70.18	POLY(STYRENE), ATACTIC	Hummel Polymer Sample Library



## FTIR-PAS to identify microplastics

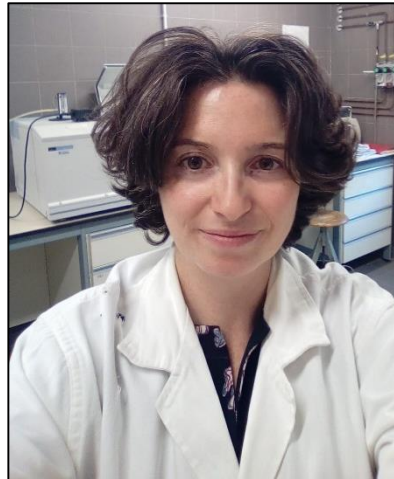
- versatile
- time-costing
- sensible

Promising tool for the identification of microplastics in complex matrices (e.g. microplastics in food)

Our database can be expanded with new spectra in the future, by allowing the implementation.



**THANK YOU FOR YOUR  
ATTENTION!**



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