December 16, 2019 **Dataset** **Open Access**

Dataset for Surface Enhanced Raman Spectroscopy for quantitative analysis: results of a large-scale European multi-instrument interlaboratory study

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This dataset contains all the spectra used in "Surface Enhanced Raman Spectroscopy for quantitative analysis: results of a large-scale European multi-instrument interlaboratory study". Data are available in 2 different formats:

- a compressed archive with 1 folder ("Dataset") cointaining all the 3516 TXT files (1 file = 1 spectrum) uploaded by all participants (all spectra of the interlaboratory study);
- 1 single CSV file ("ILSspectra.csv") with all the 3516 spectra uploaded by all participants in the form of a table. The data are structured as follow, with each row being 1 spectrum, preceded by metadata: "labcode", "substrate",

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Keyword(s):
SERS (/search?q=keywords%3A%22SERS%22) **Raman** (/search?q=keywords%3A%22Raman%22) **Interlaboratory study** (/search?q=keywords%3A%22Interlaboratory+study%22) **Adenine** (/search?q=keywords%3A%22Adenine%22) **Colloids** (/search?q=keywords%3A%22Colloids%22) **Surface enhanced Raman scattering** (/search?q=keywords%3A%22Surface+enhanced+Raman+scattering%22) **Gold nanoparticles** (/search?q=keywords%3A%22Gold+nanoparticles%22) **Laser ablation** (/search?q=keywords%3A%22Laser+ablation%22) **Calibration** (/search?q=keywords%3A%22Calibration%22)

"laser", "method", "sample", "type", "conc", "batch", "replica". Note that for those spectra starting after 400 cm-1 and/or ending before 2000 cm-1 missing values were expressed as NAs.

Funded by

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