

## **Ten years with XRF. Our story of the journey in archaeometry**

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In the year of 2009 our research group purchased a new type of analyser which opened numerous possibilities in the field of analytical chemistry and fruitful and versatile relationships were formed with colleagues who are working on processing, examining, conservation and preserving of objects of cultural heritage. This instrument is a handheld portable Niton XI3t X-ray fluorescence spectrometer (XRF) produced by Thermo Scientific. By now this technique became very general and sometimes indispensable in archaeometric researches and restoration works. Thanks to this instrument we started numerous projects and joined to many exciting and interesting works, researches during the past ten years. In the lecture we will give a short survey about these works and will demonstrate the possibilities and extremely useful role of this XRF technique but showing and emphasising problems and limitations of this method and situations where this technique is not suitable or sufficient.