

CV breve Natalia Macro:

Laurea in scienze e tecnologie per la conservazione dei beni culturali, dottorato in Scienze Fisiche e Chimiche con tesi centrata sullo studio di polimeri semi-sintetici e sintetici (plastiche) e delle loro forme di degrado come oggetti di interesse storico e artistico.

Conoscenza di tecniche analitiche, in particolar modo focalizzata su spettroscopia vibrazionale (FTIR e micro-FTIR, Raman) ma anche tecniche microscopiche (microscopia ottica, SEM-EDS) e non invasive come XRF, colorimetria, microscopia digitale portatile.

PUBBLICAZIONI

[Three-dimensional compositional mapping using double-pulse micro-laser-induced breakdown spectroscopy technique](#)

R Grassi, E Grifoni, S Gufoni, S Legnaioli, G Lorenzetti, N Macro, ...
Spectrochimica Acta Part B: Atomic Spectroscopy 127, 1-6

[New insights on Early Bronze Age IV pottery production and consumption in the southern Levant: The case of Khirbat Iskandar, Jordan](#)

L Medeghini, S Mignardi, C De Vito, N Macro, M D'Andrea, S Richard
Ceramics International 42 (16), 18991-19005

[A simple multi-analytical approach for the detection of oxidative and biological degradation of polymers in contemporary artworks](#)

N Macro, M Ioele, M Lazzari
Microchemical Journal 157, 104919

[New insight on the oxidative degradation in materials used by Piero Gilardi in two second generation Nature Carpets: A micro-invasive spectroscopic approach](#)

N Macro, M Ioele, M Brevi, G Scicolone, M Lazzari
Journal of Cultural Heritage 46, 278-282

[Detection of bronze paint degradation products in a contemporary artwork by combined non-invasive and micro-destructive approach](#)

N Macro, M Ioele, B Cattaneo, G De Cesare, F Di Lorenzo, M Storari, ...
Microchemical Journal 159, 105482

[Antimicrobial activity of essential oils: A green alternative to treat cultural heritage](#)

N Macro, C Sbrana, S Legnaioli, E Galli
Conserving Cultural Heritage, 291-293

[Poly-materials contemporary artworks by Sante Monachesi and Lucio Fontana: Study of materials and techniques](#)

N Macro, M Ioele, M Lazzari
Science and Digital Technology for Cultural Heritage, 328-332