

CRISTINA CARȘOTE



Year of birth: 1977

Nationality: Romanian

Recent affiliation:

- National Museum of Romanian History, Romania researcher (chemist) from 2008 to present

Education

- PhD (Physical Chemistry), University of Bucharest, Romania, 2011–2017
(Thesis subject: *Damage assessment of historical leathers and parchments*)
- Master (Biosensors), University of Bucharest, Romania, 2004–2006

Previous affiliations:

- National Research & Development Institute for Textile and Leather (INCDTP), Division Leather & Footwear Research Institute (ICPI), Romania, chemist, from 2006 to 2008

Projects:

National

- Innovative methods for the preservation of collagen-based artworks (KOLLART), 2017–2018 project member
- Intelligent system for analysis and diagnosis of collagen-based artifacts (COLLAGE), 2012–2016 project member
- Durable materials and technologies for leather cultural heritage objects conservation and restoration, to ensure viable cultural heritage at community level (PEL-RESTAURO), 2007 – 2010, project member
- Multidisciplinary research to establish the degradation mechanism of parchment historical and cultural documents (PERGAMO), 2006 – 2009, project member

International

- Sustainable low-temperature plasma technologies for cleaning historical & archaeological artefacts from natural polymers, *EUREKA* Project: E!9975 (SUSPLART) 2017 – 2019 project member
- Automatic Damage Assessment System for Cultural Heritage Leathers and Parchments Eureka Project E!5837 (ADAS), 2012 – 2015, Partner Team Leader

Most important publications

- Micro differential scanning calorimetry and Micro Hot Table method for quantifying deterioration of historical leather, Cristina Carsote, Elena Badea, *Heritage Science*, (2019), 7:48, <https://doi.org/10.1186/s40494-019-0292-8>.
- The effect of halloysite nanotubes dispersions on vegetable-tanned leather thermal stability, Elena Badea, Cristina Carsote, Emanuel Hadimbu, Claudiu Sendrea, Maria Cristina Lupas, *Heritage Science*, (2019) 7:68, <https://doi.org/10.1186/s40494-019-0310-x>.
- *Bindings of Rare Books from the collections of the Romanian Academy Library - a multidisciplinary study*, Cristina Carșote, Luminița Kövari, Carmen Albu, Emanuel Hadimbu, Elena Badea, Lucreția Miu, Gabriela Dumitrescu, *Revista de Pielarie Incaltaminte* 18 (2018) 4, 307 – 320.
- *I segreti della pergamena del testamento di Marco Polo/The secrets of the parchment containing Marco Polo's will*. în "Ego Marcus Paulo volo et ordino - I segreti del testamento di Marco Polo// Ego Marcus Paulo volo et ordino - The secrets of Marco Polo's will", Elena Badea, Cristina Carșote, edited by Tiziana Plebani, Scrinium S.p.A, Venice - Mestre, Italia, (2017), p. 247 – 271.
- *Application of thermal analysis methods for damage assessment of leather in an old military coat belonging to History Museum of Brașov – Romania*, Petru Budrugeac, Cristina Carșote, Lucreția Miu, *Journal of Thermal Analysis and Calorimetry*, (2017), **127**:765-762.
- *Unilateral NMR and thermal microscopy studies of vegetable tanned leather exposed to dehydrothermal treatment and light irradiation*, Elena Badea, Claudiu Sendrea, Cristina Carșote, Alina Adams, Bernhard Blümich, Horia Iovu, *Microchemical Journal*, (2016), **129**:158-165.
- *Study of the effect of tannins and animal species on the thermal stability of vegetable leather by differential scanning calorimetry*, Cristina Carșote, Elena Badea, Lucretia Miu, Giuseppe Della Gatta, *Journal of Thermal Analysis and Calorimetry*, (2016), **124**:1255-1266, DOI 10.1007/s10973-016-5344-7.

Active Member of associations

- Romanian Association Science and Cultural Heritage in Connection (i-CON), member, since 2012
- Romanian Chemical Society, Chemistry for Cultural Heritage Division, member, since 2018