

1. F. Sabatini, E. Maresca, M. Aulitto, V. Termopoli, A. De Risi, M. Correggia, G. Fiorentino, V. Consonni, F. Gosetti, M. Orlandi*, H. Lange, P. Contursi* (2025). *Exploiting agri-food residues for kombucha tea and bacterial cellulose production*, **International Journal of Biological Macromolecules**, 140293, doi: 10.1016/j.ijbiomac.2025.140293.
2. F. Sabatini, M. Mattonai, B. Doherty, I. Degano (2025). *Unveiling the composition of native Asian dye plants by EGA/MS and Py-GC/MS*, **Journal of Analytical and Applied Pyrolysis**, 186, 106979, doi: 10.1016/j.jaap.2025.106979.
3. M. Alunni Cardinali*, I. Bargagli, V. Di Tullio, B. Doherty, M. Paolantoni, D. Fioretto, N. Proietti, F. Sabatini, C. Miliani, E. Storace, S. Russo, R. Trevisan, A. Vannini, L. Cartechini, A. Romani, L. Comez, F. Rosi (2024). *Multimodal spectroscopic assessment of mechanical and chemical properties of ABS objects in cultural heritage preservation*, **EPJ Web of Conferences**, 309, 14006, doi: 10.1051/epjconf/202430914006.
4. I. Bargagli, M. Alunni Cardinali, V. Di Tullio, B. Doherty, M. Paolantoni, D. Fioretto, N. Proietti, F. Sabatini, C. Miliani, E. Storace, S. Russo, R. Trevisan, A. Vannini, L. Cartechini*, L. Comez*, F. Rosi* (2024). *Assessing Mechanochemical Properties of Acrylonitrile Butadiene Styrene (ABS) Items in Cultural Heritage Through a Multimodal Spectroscopic Approach*, **Applied Spectroscopy**, 78 (12), 1316–1328, doi: 10.1177/00037028241267325.
5. C.M. Pinto, C. Clementi*, F. Sabatini, I. Degano, A. Romani, J. S. Seixas de Melo* (2024). *Unveiling the photostability of the molecule of colour shikonin: from solution to the solid state*, **Journal of Molecular Structure**, 1316, doi: 138898 10.1016/j.molstruc.2024.138898.
6. D. Tamburini*, F. Sabatini, S. Berbers, M.R. van Bommel, I. Degano (2024). *An Introduction and Recent Advances in the Analytical Study of Early Synthetic Dyes and Organic Pigments in Cultural Heritage*, **Heritage**, 7 (4), 1969–2010, doi: 10.3390/heritage7040094. **Cover page.**
7. A. Ferretti, F. Sabatini, I. Degano* (2024). *Linking historical recipes and ageing mechanisms: the issue of 19th century iron gall inks*, **Journal of Cultural Heritage**, 67, 111–120, doi: 10.1016/j.culher.2024.02.012.
8. M. Mendili*, A. Khadhri, F. Sabatini, I. Degano, S. Aschi-Smiti (2023). *Parietin, the Vibrant Natural Dye in Xanthoria parietina*, **Chemistry & Biodiversity**, e202301357, doi: 10.1002/cbdv.202301357.
9. F. Sabatini, J. La Nasa, I. Degano*, B. Campanella, S. Legnaioli, I. Saccani, F. Modugno (2023). *Fluorescent Paints in Contemporary Murals: A Case Study*, **Heritage**, 6 (8), 5689–5699; doi: 10.3390/heritage6080299.
10. F. Sabatini, S. Pizzimenti, I. Bargagli, I. Degano*, C. Duce, L. Cartechini, F. Modugno, F. Rosi (2023). *A Thermal Analytical Study of LEGO® Bricks for Investigating Light-Stability of ABS*, **Polymers**, 15 (5), 3267, doi: 10.3390/polym15153267E.
11. Della Latta, F. Sabatini, C. Micheletti, M. Carlotti, F. Martini*, F. Nardelli, A. Battisti, I. Degano, M. Geppi, A. Pucci*, S. Pohld, G. Kickelbick (2023). *Performant flexible luminescent solar concentrators of phenylpolysiloxanes crosslinked with perylene bisimide fluorophores*, **Polymer Chemistry**, 14, 1602–1612, doi: 10.1039/d2py01428a.
12. I. Bargagli, F. Sabatini*, F. Modugno, J.J. Łucejko* (2022). *Testing Clean-Up Methods for the Quantification of Monosaccharides and Uronic Acids*, **Applied Science**, 12(24), 12781, doi: 10.3390/app122412781.
13. A. Ferretti, F. Sabatini, I. Degano* (2022). *A Model Iron Gall Ink: An In-Depth Study of Ageing Processes Involving Gallic Acid*, **Molecules**, 27, 8603, doi: 10.3390/molecules27238603.
14. F. Sabatini, I. Corsi, A. Ceccarini, M. Brillanti, M.P. Colombini, I. Bonaduce* (2023). *Pyrolysis gas chromatography mass spectrometry: A promising tool for disclosing metal-free tanning agents used in leather industry*, **Journal of Analytical and Applied Pyrolysis**, 169, 105803, doi: 10.1016/j.jaap.2022.105803.

15. F. Sabatini*, J. Alcantara-Garcia, I. Degano (2022). *Molecular Characterization of a South American Yellow Dye Source: Cosmos Sulphureus*, **ChemistrySelect**, 7, 28, e202200720, doi: 10.1002/slct.202200720.
16. T. Nacci, F. Sabatini, C. Cirrincione, I. Degano*, M.P. Colombini (2022). *Characterization of textile fibers by means of EGA-MS and Py-GC/MS*, **Journal of Analytical and Applied Pyrolysis**, 165, 105570, doi: 10.1016/j.jaap.2022.105570.
17. T. Nacci*, D. Roversi, F. Sabatini, I. Degano, B. Ferriani, N. Strada, F. Modugno (2022). *Multianalytical approach to characterize composition and degradation processes of synthetic high-fashion textiles from the Nanni Strada Design Studio archives*, **Journal of Physics: Conference Series, IOP Publishing**, 2204 (1), doi: 10.1088/1742-6596/2204/1/012012.
18. R. Deyjoo, P. Holakooei*, F. Sabatini, I. Degano, M.P. Colombini (2021). *Coptic textiles in Tehran: dye and fibre characterisation in four Coptic textiles preserved at the Moghadam Museum*, **Archaeological and Anthropological Sciences**, 13, 222 doi: 10.1007/s12520-021-01465-3.
19. J. La Nasa, B. Doherty*, F. Rosi*, C. Braccini, F. T. H. Broers, I. Degano, J. M. Matinero, C. Miliani, F. Modugno, F. Sabatini, I. C. A. Sandu, L. Cartechini (2021). *An integrated analytical study of crayons from the original art materials collection of the MUNCH museum in Oslo*, **Scientific Reports**, 11, 7152, doi: 10.1038/s41598-021-86031-6.
20. F. Sabatini, J. La Nasa, C. Guerrini, F. Modugno, S. Bonadio, F. Ursino, I. Tosini, M.P. Colombini, I. Degano* (2021). *On the Set of Fellini's Movies: Investigating and Preserving Multi-Material Stage Costumes Exploiting Spectroscopic and Mass Spectrometric Techniques*, **Applied Science**, 11(7), 2954, doi: doi.org/10.3390/app11072954.
21. F. Sabatini*, I. Degano, M. Van Bommel (2021). *Investigating the in-solution photo-degradation pathway of Diamond Green G by chromatography and mass spectrometry*, **Coloration Technology**, 137 (5), 456-467, doi: 10.1111/cote.12538.
22. J. La Nasa*, B. Campanella, F. Sabatini, A. Rava, W. Shank, P. Lucero-Gomez, D. De Luca, S. Legnaioli, V. Palleschi, M.P. Colombini, I. Degano, F. Modugno (2021). *60 years of street art: a comparative study of the artists' materials through spectroscopic and mass spectrometric approaches*, **Journal of Cultural Heritage**, 48, 129-140, doi: 10.1016/j.culher.2020.11.016.
23. F. Sabatini, M. Bacigalupo, I. Degano*, A. Javér, M. Hacke (2020). *Revealing the organic dye and mordant composition of Paracas textiles by a combined analytical approach*, **Heritage Science**, 8 (1), doi: 10.1186/s40494-020-00461-5.
24. P. Grinder-Hansen, U. Kjær, M. Ryhl-Svendsen, M.P. Colombini, I. Degano, J. La Nasa*, F. Sabatini, J. van der Plicht, K. Lund Rasmussen (2020). *Textiles and environment in the showcase containing Saint Canute the Holy († AD 1086): Radiocarbon dating and chemical interactions*, **Heritage Science**, 8 (1), doi: 10.1186/s40494-020-00442-8.
25. A. Chieli, C. Miliani, I. Degano, F. Sabatini, P. Tognotti, A. Romani* (2020). *NEW insights into the fading mechanism of Geranium Lake in painting matrix*, **Dyes and Pigments**, 181, 108600, doi: 10.1016/j.dyepig.2020.108600.
26. F. Sabatini, E. Eis, I. Degano, M. Thoury, I. Bonaduce, A. Lluveras-Tenorio* (2020). *The issue of eosin fading: A combined spectroscopic and mass spectrometric approach applied to historical lakes*, **Dyes and Pigments**, 160, 587-596, doi: 10.1016/j.dyepig.2020.108436.
27. F. Sabatini, A. Manariti, F. di Girolamo, I. Bonaduce, L. Tozzi, A. Rava, M.P. Colombini, A. Lluveras-Tenorio* (2020). *Painting on polyurethane foam: "Composizione-Superficie Lunare" by Giulio Turcato*, **Microchemical Journal**, 156, 104872, doi: 10.1016/j.microc.2020.104872.
28. F. Sabatini*, I. Degano (2020). *Investigating the fragmentation pathways of β -naphthol pigments using liquid chromatography/electrospray ionization quadrupole time-of-flight mass spectrometry*, **Rapid Communication in Mass Spectrometry**, 34:e8789, doi: 10.1002/rcm.8789.
29. F. Sabatini*, I. Degano, M.P. Colombini (2020). *Development of a method based on high-performance liquid chromatography coupled with diode array, fluorescence, and mass*

spectrometric detectors for the analysis of eosin at trace levels, **Separation Science plus**, 1-9, doi: 10.1002/sscp.202000002.

30. K. Kato, B. Doherty*, I. Degano, F. Sabatini, C. Miliani, A. Romani, K. Ito, B.G. Brunetti (2020). *An SERS analytical protocol for characterizing native Japanese plant extracts*, **Journal of Raman Spectroscopy**, 1-11, doi: 10.1002/jrs.5856.
31. J. La Nasa, L. Nodari*, F. Nardella, F. Sabatini, I. Degano, F. Modugno, S. Legnaioli, B. Campanella, M.K. Tufano, M. Zuenzi, P. Tomasin (2020). *Chemistry of Modern Paint Media: the Strained and Collapsed Painting by Alexis Harding*, **Microchemical Journal**, 155, 104659, doi: 10.1016/j.microc.2020.104659.
32. P. Holakoei*, A.H. Karimy, F. Saeidi-Anaraki, C. Vaccaro, F. Sabatini, I. Degano, M.P. Colombini (2020). *Colourants on the wall paintings of a mediæval fortress at the mount Sofeh in Isfahan, central Iran*, **Archaeological Science Report**, 29, 102065, doi: 10.1016/j.jasrep.2019.102065.
33. I. Degano, M. Mattonai, F. Sabatini, M.P. Colombini (2019). *A mass spectrometric study on tannin degradation within dyed woolen yarns*, **Molecules**, 24(12), 2318, doi: 10.3390/molecules24122318.
34. J. La Nasa, G. Biale, F. Sabatini, I. Degano, M.P. Colombini, F. Modugno* (2019). *Synthetic materials in art: a new comprehensive approach for the characterization of multi-material artworks by analytical pyrolysis*, **Heritage Science**, 7(1), 8, doi: 10.1186/s40494-019-0251-4.
35. I. Degano*, F. Sabatini, C. Braccini, M.P. Colombini (2019). *Triarylmethine dyes: Characterization of isomers using integrated mass spectrometry*, **Dyes and Pigments**, 160, 587-596, doi: 10.1016/j.dyepig.2018.08.046.
36. F. Sabatini, T. Nacci, I. Degano*, M.P. Colombini (2018). *Investigating the composition and degradation of wool through EGA/MS and Py-GC/MS*, **Journal of Analytical and Applied Pyrolysis**, 135, 111-121, doi: 10.1016/j.jaap.2018.09.012.
37. F. Sabatini, R. Giugliano, I. Degano* (2018). *Photo-oxidation processes of Rhodamine B: A chromatographic and mass spectrometric approach*, **Microchemical Journal**, 140, 114-122, doi: 10.1016/j.microc.2018.04.018.
38. F. Sabatini, R. Giugliano, I. Degano, A. Lluveras-Tenorio, R. Sokolová, M. Thoury, M.P. Colombini (2018). *Development of a multi-analytical approach to investigate the fading of eosin in painting matrices*, **Materials Science and Engineering: Conference Series, IOP Publishing**, 364(1) 012066, doi: 10.1088/1757-899X/364/1/012066.
39. F. Sabatini, A. Lluveras-Tenorio, I. Degano*, S. Kuckova, I. Krizova, M. P. Colombini (2016). *A Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Method for the Identification of Anthraquinones: the case of Historical Lakes*, **Journal of The American Society for Mass Spectrometry**, 27 (11), 1824-1834, doi: 10.1007/s13361-016-1471-4.
40. A. Lluveras-Tenorio*, I. Bonaduce, F. Sabatini, I. Degano, C. Blaensdorf, E. Pouyet, M. Cotte, M. P. Colombini (2015). *The Organic Materials used in the Five Northern Provinces' Assembly Hall Mural Paintings (Ziyang, China): disclosing the painting technique of the Qing Dynasty Painters in Civil Buildings*, **Applied Physics A**, 121(3), 879-889, doi: 10.1007/s00339-015-9362-2.