LASER APPLICATIONS IN HERITAGE SCIENCE & CONSERVATION

LIST OF PUBLICATIONS

ARTICLES IN SCIENTIFIC JOURNALS

- "The importance of the optical properties of the materials involved in laser cleaning: the case of calcium oxalate and albumen patinas on oil paintings", I. Pecorelli, C. Cardinali, E. Dimitroulaki, K. Melessanaki, G. De Cesare, P. Pouli, in press, Jurnal of Cultural Heritage, VSI: TECHNART 2025; IN PRESS
- "Studying the materials and techniques of Greek Byzantine icons using the TriENA analytical system", M. Athanasiadou, V Panagiotopoulos, A. Petrou, K. Melessanaki, V. Piñon, K. Hatzigiannakis, A. Tsigkri, P. Pouli, D. Anglos. 2026. Cultural Connections in Conservation. ICOM-CC 21st Triennial Conference Preprints, Oslo, 14– 18 September 2026, ed. J. Bridgland. Paris: International Council of Museums. PDF. **https://www.icom-cc.org/en/publicatio** ; IN PRESS

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2. "In situ microRaman spectroscopy as a screening tool for assessing human DNA preservation in ancient dental remains", A. Philippidis, A. Mamali, V. Pinon, D. Vassou, A. Nafplioti, E. Tabakaki, N. Poulakakis, A. Stamatakis, P. Pavlidis, N. Psonis, D. Anglos, Microchemical Journal, 224, 117446. (2026); https://doi.org/10.1016/j.microc.2026.117446
3. "Ageing-induced changes in varnish-coated oil paints: Surface and subsurface multi-technical analysis", A. Dal Fovo, L. Maestro-Guijarro, P.M. Carmona-Quiroga, R. Fontana, F. Rosi, M. Alunni Cardinali, A. Romani, L. Comez, C. Riminesi, M. Iwanicka, P. Targowski, M. Kowalska, A. Philippidis, P. Pouli, M. Castillejo, M. Oujja, Journal of Cultural Heritage, 76, 263-276 (2025); https://doi.org/10.1016/j.culher.2025.10.003
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2. "TriENA, a portable, hybrid multimode spectrometer combining Diffuse Reflectance, LED-Induced Fluorescence and Laser-Induced Breakdown Spectroscopy for a holistic analysis of materials on monuments and objects of archaeological interest", V.Pinon, A. Giakoumaki, M. Andrianakis, K. Hatzigiannakis, K. Melessanaki, P. Siozos, D. Anglos, P. Pouli, Anal. Chem. 97, 49, 27276–27288 (2025); doi.org/10.1021/acs.analchem.5c05236
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