



Máster Universitario en  
Ciencia y Tecnología en  
Patrimonio  
Arquitectónico

## Publicaciones

Estas son las publicaciones en revistas científicas de algunos de los TFM realizados por antiguos alumnos del máster CiTPA:

- Jiménez-Desmond D., Santiago Pozo-Antonio J., Cardell C. **Discolouration of historical pigments: Investigating the whitening of red lead tempera-based mock-ups after natural weathering.** Journal of Cultural Heritage 79, 1-14 (2026)
- Moronta-Montero F., Reichert A.S., Blanc M.B., Cardell C., Hernández-Andrés J., Valero E.M. **Mixing to unmix: Painting component identification in historical graphic documents via data fusion of DRIFTS and VNIR-SWIR reflectance spectra.** Microchemical Journal 218115223 (2025)
- Reichert A. S., López-Baldomero A. B., Moronta-Montero F., López-Montes A., Valero E. M., Cardell C. **Database of diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) and hyperspectral imaging (HSI) spectra of pigments and dyes for historical document analysis.** Analytical and Bioanalytical Chemistry, 1-22 (2025)
- Elert K., Spallarossa Jiménez M.M., Burgos-Ruiz M. **Gypsum-based materials for exterior applications using lime and recycled pozzolanic additions .** Construction and Building Materials, 450, 138713 (2024)
- Gallegillo M.S., Arizzi A., Sebastián Pardo E., Medina M.R., Uribe A. **Characterization of the building materials used in the Refectory of the Manzana Jesuítica in Córdoba (Argentina) on the basis of a study of its historical background and the archaeological evidence.** Minerals (2024)
- Parra Fernández C., Arizzi A., Secco M., Cultrone G. **The manufacture of natural hydraulic limes: influence of raw materials' composition, calcination and slaking in the crystal-chemical properties of binders.** Cement and Concrete Research 185, 107631, 1-12 (2024)
- Jiménez Desmond D., Arizzi A., Cardell C. **A case study of Renaissance wall painting in Granada (Spain): historical-artistic analysis, material characterization and state of conservation.** Minerals, 13, 854, 1-26 (2023)
- Elert K., Alabarce Alaminos R., Benavides-Reyes C., Burgos-Ruiz M. **The effect of lime addition on weathering resistance and mechanical strength of gypsum plasters and renders.**

Cement and Concrete Composites, 105012 (2023)

- Elert K., Baños E. G., Velasco A. I., Bel-Anzué P. **Traditional roofing with sandstone slabs: Implications for the safeguarding of vernacular architecture.** Journal of Building Engineering, 33, 101857 (2021)
- Setti M., Arizzi A., Nieto P., Velilla Sánchez N., Cultrone G., d'Alfonso L. **From ancient construction, through survival, towards modern conservation: characterization of fine-grained building material at Niğde-Kinik Höyük (Cappadocia, Turkey).** Archaeological and Anthropological Sciences, 13, 79, 1-13 (2021)
- Cultrone G., Aurrekoetxea I., Casado C., Arizzi A. **Sawdust recycling in the production of lightweight bricks: how the amount of additive and the firing temperature influence the physical properties of the bricks.** Construction and Building Materials, 235, 117436, 1-13 (2020)
- Elias M.L., Cultrone G. **On the use of sodium chloride and calcined diatomite sludge as additives to improve the engineering properties of bricks made with a clay earth from Jun (Granada, Spain).** Minerals, 9, 64, 1-22 (2019)
- Saenz N., Sebastián E., Cultrone G. **Analysis of tempered bricks: from raw material and additives to fired bricks for use in construction and heritage conservation.** European Journal of Mineralogy, 31, 301-312 (2019)
- Elert K., García Sánchez R.M., Benavides-Reyes C., Linares Ordóñez F. **Influence of animal glue on mineralogy, strength and weathering resistance of lime plasters.** Construction and Building Materials, 226, 625-635 (2019)
- Arizzi A., Martínez Huerga G., Sebastián Pardo E., Cultrone G. **Mineralogical, textural and physical-mechanical study of hydraulic lime mortars cured under different moisture conditions.** Materiales de Construcción, 65, e053, 1-11 (2015)