

LASER APPLICATIONS IN CULTURAL HERITAGE SCIENCE & CONSERVATION**LIST OF PUBLICATIONS****ARTICLES IN SCIENTIFIC JOURNALS**

1. "Laser-induced fluorescence as a non-invasive tool to monitor laser-assisted thinning of aged varnish layers on paintings: fundamental issues and critical thresholds", O. Kokkinaki, E. Dimitroulaki, K. Melessanaki, D. Anglos, P. Pouli, Eur. Phys. J. Plus 136, 938 (2021); doi.org/10.1140/epjp/s13360-021-01929-4
2. "Revealing Hidden Features in Multilayered Artworks by Means of an Epi-Illumination Photoacoustic Imaging System", G.J Tserevelakis, A. Chaban, E. Klironomou, K. Melessanaki, J. Striova, G. Zacharakis, J. Imaging, 7, 183 (2021); doi.org/10.3390/jimaging7090183
3. "Review and New Evidence on the Molluscan Purple Pigment Used in the Early Late Bronze Age Aegean Wall Paintings", S. Sotiropoulou, I. Karapanagiotis, K. S. Andrikopoulos, T. Marketou, K. Birtacha, M. Marthari, Heritage, 4 (1), 171-187 (2021); doi.org/10.3390/heritage4010010
4. "Application of laser-induced breakdown spectroscopy and neural networks on archaeological human bones for the discrimination of distinct individuals", P. Siozos, N. Hausmann, D. Anglos, Journal of Archaeological Science: Reports, 32 (2021), 102769; doi.org/10.1016/j.jasrep.2020.102769
5. "Listening to laser light interactions with objects of art: a novel photoacoustic approach for diagnosis and monitoring of laser cleaning interventions", G. J. Tserevelakis, P. Pouli, G. Zacharakis, Heritage Science 8, 98 (2020). doi.org/10.1186/s40494-020-00440-w
6. "Materials analyses of stone artifacts from the EBA to MBA Minoan Tholos tomb P at Porti, Greece (Crete), by means of Raman spectroscopy: Results and a critical assessment of the method" G. Flouda, A. Philippidis, A. Mikallou, D. Anglos, Journal of Archaeological Science: Reports, 32 (2020), 102436; doi.org/10.1016/j.jasrep.2020.102436
7. "Development of a hybrid photoacoustic and optical monitoring system for the study of laser ablation processes upon the removal of encrustation from stonework", A. Papanikolaou, G.J. Tserevelakis, K. Melessanaki, C. Fotakis, G. Zacharakis, P. Pouli, Opto-Electronic Advances 3, 2, 190037-1 (2020); doi.org/10.29026/oea.2020.190037
8. "Laser-induced breakdown spectroscopy (LIBS) in cultural heritage", D. Anglos, Analytical Methods Committee AMCTB No. 91, Analytical Methods, 11, 5833-5836 (2019); doi.org/10.1039/c9ay90147g
9. "Non-invasive photoacoustic detection of hidden underdrawings in paintings using air-coupled transducers", G. J. Tserevelakis, P. Siozos, A. Papanikolaou, K. Melessanaki, G. Zacharakis, Ultrasonics 98, 94-98 (2019); doi.org/10.1016/j.ultras.2019.06.008
10. "Cleaning of gypsum-rich black crusts on granite using a dual wavelength Q-Switched Nd:YAG laser", J.S. Pozo-Antonio, A Papanikolaou, A. Philippidis, K. Melessanaki, T. Rivas, P. Pouli, Construction and Building Materials 226, 721–733 (2019); doi.org/10.1016/j.conbuildmat.2019.07.298
11. "Laser cleaning of paintings: in situ optimization of operative parameters through non-invasive assessment by optical coherence tomography (OCT), reflection FT-IR spectroscopy and laser induced fluorescence spectroscopy (LIF)", P. Moretti, M. Iwanicka, K. Melessanaki, E. Dimitroulaki, O. Kokkinaki, M. Daugherty, M. Sylwestrzak, P. Pouli, P. Targowski, K.J. van den Berg, L. Cartechini and C. Miliani, Heritage Science, 7:44 (2019); doi.org/10.1186/s40494-019-0284-8
12. "Combined multiphoton fluorescence microscopy and photoacoustic imaging for stratigraphic analysis of paintings", G.J. Tserevelakis, V. Tsafas, K. Melessanaki, G. Zacharakis, G. Filippidis, Optics Letters 44, 1154-1157 (2019); doi.org/10.1364/OL.44.001154

13. "Extensive elemental mapping unlocks Mg/Ca ratios as climate proxy in seasonal records of Mediterranean limpets", N. Hausmann, A. L. Prendergast, A. Lemonis, J. Zech, P. Roberts, P. Siozos, D. Anglos, *Scientific Reports* 9, 3698 (2019); doi.org/10.1038/s41598-019-39959-9
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16. "Introducing the HERACLES Ontology – Semantics for Cultural Heritage Management", T. Hellmund, P. Hertweck, D. Hilbring, J. Mossgraber, G. Alexandrakis, P. Pouli, A Siatou and G. Padeletti, *Heritage, Special Issue "Cultural Heritage - Materials, Techniques and Knowledge Perspectives on a Common Identity"*, 1, 377–391(2018); [doi:10.3390/heritage1020026](https://doi.org/10.3390/heritage1020026)
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19. "POLYGNOSIS": The development of a Thesaurus in an Educational Web Platform on optical and laser-based investigation methods for Cultural Heritage analysis and diagnosis", N. Platia, M. Chatzidakis, C. Doerr, L. Charami, Ch. Bekiari, K. Melessanaki, K. Hatzigiannakis, P. Pouli, *Heritage Science* (2017) 5:50; [doi:10.1186/s40494-017-0163-0](https://doi.org/10.1186/s40494-017-0163-0)
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