

## Personal information



Name **Luminița Ghervase** (born Cristescu)

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Date of birth February 16<sup>th</sup> 1984

## Work experience

Scientific researcher II<sup>d</sup> degree, Centre of excellence for restoration by optoelectronic techniques (CERTO), National Institute of Research and Development for Optoelectronics INOE 2000, Romania, 2016 - present

## Education and training

Multivariate analysis of spectroscopic data, Theory & examples using Unscrambler 11, Camo Analytics, 12-13.11.2020

Origin v2020b Advanced Training, OriginLab, 15.07.2020

Radiologic security in ionising radiations activities – X-ray generators and non-destructive X-ray control, Nuclear Training Centre, Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania, 2019

OPTO-CH Workshop “Laser technologies in Cultural Heritage analysis, diagnosis and conservation”, Institute of Electronic Structure & Laser Foundation for Research & Technology (IESL-FORTH), Heraklion, Greece, 27.06 – 02.07.2016

Cultural assets restorer – Establishing diagnostic, Association for Patrimony Protection, Romania, 22.02 – 01. 04. 2016

Ph.D. thesis on “Surface water peculiarities with an impact on life quality”, Doctoral School of Physics, University of Bucharest, Bucharest, Romania, 2008-2011

## SELECTIVE LIST OF ISI PUBLICATIONS

- 1. Investigation of Ancient Wall Painting Fragments Discovered in the Roman Baths from Alburnus Maior by Complementary Non-Destructive Techniques**, I.M. corcea, L. Ratoiu, L. Ghervase, O. Tentea, M. Dinu, 2021, *Applied Sciences-Basel*, 11(21), DOI10.3390/app112110049
- 2. Multi-analytical approach for characterization of archaeological pottery excavated in the Early-Neolithic settlement of Chavdar, Bulgaria**, V. Atanassova, I.M. Corcea, V. Mihailov, V. Tankova, L. Ghervase, 2021, *Spectroscopy Letters*, 54(7), 549-559, DOI10.1080/00387010.2021.1957940
- 3. Laser removal of marker tags from a contemporary graffiti painting**, V. Atanassova, L. Ghervase, I.M. Corcea, 2021, *XXI INTERNATIONAL CONFERENCE AND SCHOOL ON QUANTUM ELECTRONICS: LASER PHYSICS AND APPLICATIONS*, Book Series: Journal of Physics Conference Series, 1859, DOI10.1088/1742-6596/1859/1/012001
- 4. Green biotechnologies used in the restoration of mural painting and lithic support: review**, I. Gomoiu, M. Enache, S. Neagu, R. Ruginescu, M. Dumbravician, R. Radvan, L. Ghervase, I. Mohanu, R. Cojoc, 2021, *Revista romana de materiale-romanian journal of materials*, 51(4), 495-504
- 5. Cleaning of mural paintings and mortars: review**, Gomoiu I., Radvan R., Ghervase L., Mohanu I., Enache M., Neagu S., Ruginescu R., Cojoc R., 2020, *Romanian Journal of Materials*, 50, 4, 485-492
- 6. Application of spectroscopic and hyperspectral imaging techniques for rapid and non-destructive investigation of Jewish ritual parchment**, I.M. Corcea, L. Ghervase, L. Ratoiu, R. Radvan, *Frontiers in Materials*, doi: 10.3389/fmats.2020.601339
- 7. Investigation on metal adornments from ancient Eastern Europe**, L. Ghervase, M. Dinu, C. Bors, L.-M. Angheluta, R. Radvan, I.-M. Corcea, *Frontiers in Materials*, 7:600913, doi:10.3389/fmats.2020.600913
- 8. Optoelectronic investigation of the mural paintings from Drăguțești wooden church, Argeș County, Romania**, M. Dinu, I.M. Corcea, L. Ghervase, M.C. Stancu, I. Mohanu, N. Cristea, *Journal of optoelectronics and advanced materials*, vol. 22, no. 5-6, May-June 2020, pp. 303-309
- 9. Uncovering hidden jewels: an investigation of the pictorial layers of an 18<sup>th</sup>-century Taskin harpsichord**, I.M. Corcea, L. Ghervase, L. Ratoiu, M. Dinu, R. Radvan, *Heritage Science*, vol. 8, issue 55, <https://doi.org/10.1186/s40494-020-00401-3>, 2020.
- 10. Multidisciplinary approach for time-framing of an overpainted wooden iconostasis from Southern Romania**, I. Huica, I.M. Corcea, L. Ratoiu, L. Ghervase, R. Radvan, D. Mohanu, *Microchemical Journal*, vol. 155, pp. 104685, <https://doi.org/10.1016/j.microc.2020.104685>, 2020, WOS:000527371500029
- 11. First Analytical Study on Second-Century Wall Paintings from Ulpia Traiana Sarmizegetusa: Insights on the Materials and Painting Technique**, I.M. Corcea, L. Ghervase, O. Tentea, A.C. Parau, R. Radvan, *International Journal of Architectural Heritage*, 2020, 14(5), 751-761, DOI: 10.1080/15583058.2019.1568614, WOS:000530938900007
- 12. Optoelectronic investigation of the mural paintings from Drăguțești wooden church, Argeș County, Romania**, M. Dinu, I.M. Corcea, L. Ghervase, M.C. Stancu, I. Mohanu, N.

Cristea, *Journal of optoelectronics and advanced materials*, vol. 22, no. 5-6, May-June 2020, pp. 303-309.

13. **Non-destructive techniques applied to in situ study of Maqsura at Cordoba cathedral (Spain)**, A. Gomez-Moron, P. Ortiz, R. Ortiz, J. Becerra, R. Gomez-Canada, R. Radvan, A. Chelmus, L. Ratoi, L. Ghervase, I.M. Corcea, C. Constantin, L. Angheluta, *Science and Digital Technology for Cultural Heritage: Interdisciplinary Approach to Diagnosis, Vulnerability, Risk Assessment and Graphic Information Models*, 2020, 338-342, Proceedings of the 4th International Congress on Science and Technology for the Conservation of Cultural Heritage (TECHNOHERITAGE), 26-30 March 2019, Seville, Spain, WOS:000525578800064
14. **In situ study by XRF and LDV of mural paintings in Magdalena church (Seville, Spain)**, A. Tirado-Hernandez, J. Becerra, R. Ortiz, P. Ortiz, A. -Moron, L. Ghervase, I. Corcea, A. Chelmus, R. Radvan, *Science and Digital Technology for Cultural Heritage: Interdisciplinary Approach to Diagnosis, Vulnerability, Risk Assessment and Graphic Information Models*, 2020, 343-347, Proceedings of the 4th International Congress on Science and Technology for the Conservation of Cultural Heritage (TECHNOHERITAGE), 26-30 March 2019, Seville, Spain, WOS:000525578800065
15. **Non-destructive techniques applied to the study and diagnosis of ceramic and glazed terracotta tombs in Omnium Sanctorum church (Seville, Spain)**, A. Tirado-Hernandez, J. Becerra, R. Ortiz, P. Ortiz, A. Gomez-Moron, L. Ghervase, I. Corcea, L. Angheluta, R. Radvan, *Science and Digital Technology for Cultural Heritage: Interdisciplinary Approach to Diagnosis, Vulnerability, Risk Assessment and Graphic Information Models*, 2020, 347-352, Proceedings of the 4th International Congress on Science and Technology for the Conservation of Cultural Heritage (TECHNOHERITAGE), 26-30 March 2019, Seville, Spain, WOS:000525578800066
16. **Multidisciplinary Approach Applied to the Diagnosis of the Facade of the Arciprestal Church of Santa María de Morella (Castellón, Spain)**, L. Ferrazza, M.T. Pastor Valls, G.M. Contreras Zamorano, D.J. Barber, R. Radvan, A. Chelmus, L. Ratoi, L. Ghervase, I.M. Corcea, P. Ortiz, *Scanning*, vol. 2019, Article ID 2852804, 14 pages, <https://doi.org/10.1155/2019/2852804>, 2019,
17. **Non-destructive spectroscopic investigation of artefacts from middle Hallstatt period – case study of a stone bead from Tărtăria I Hoard, Romania**, L. Ghervase, I.M. Corcea, R. Rădvan, C. Borș, *Archaeological and Anthropological Sciences*, DOI 10.1007/s12520-017-0502-9
18. **Corroborated X-ray imaging and elemental analysis for obtaining quantitative information from radiographs**, A. Chelmus, R. Radvan, L. Ghervase, *Optoelectronics and Advanced Materials –Rapid Communications*, Vol. 12, No. 5-6, May-June 2018, p. 314 -318
19. **Complementary investigations of two Lipovan-style icons**, L. Ghervase, IM Corcea, R. Rădvan, L. Ratoi, A. Chelmuș, *Microchemical Journal*, 2018, 138, 509-518
20. **Portable X-ray fluorescence investigation of certain bronze beads of hoard Tărtăria I and their specific corrosion**, R. Radvan, C. Bors, L. Ghervase, *Romanian Journal of Physics*, 2016, 61(9-10), 1530-1538