

Personal information



Name | **Luminița Ghervase** (born Cristescu)
E-mail | ghervase@inoe.ro
Date of birth | February 16th 1984

Work experience

Dates | 2016 - present
Position held | Scientific researcher IIrd degree
Main activities | Cultural heritage investigations via X-ray fluorescence spectroscopy and laser-induced fluorescence spectroscopy; elaboration of scientific articles; project drafting; project responsible; bibliography research, data collection
Employer | National Institute of Research and Development for Optoelectronics

Dates | 2012 –2016
Position held | Scientific researcher IIIrd degree
Main activities | Project drafting; project responsible; Bibliography research, data collection, elaboration of scientific articles in the field of water/soil quality investigation using spectroscopic methods; Analysis of skin lesion using fluorescence spectroscopy and optical coherence tomography
Employer | National Institute of Research and Development for Optoelectronics

Dates | 2011-2012
Position held | Scientific researcher
Main activities | Bibliography research, data collection, elaboration of scientific articles; Analysis of skin lesion using combined spectroscopic methods
Employer | National Institute of Research and Development for Optoelectronics

Dates | 2008 - 2011
Position held | Research assistant
Main activities | Bibliography research, data collection
Employer | National Institute of Research and Development for Optoelectronics

Education and training

Dates	2019
Principal subjects	Radiologic security in ionising radiations activities – X-ray generators and non-destructive X-ray control
Name of organisation	Nuclear Training Centre, Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania
Dates	27.10-05.11.2014
Principal subjects	Radiologic security in ionising radiations activities – X-ray generators and non-destructive X-ray control
Name of organisation	Nuclear Training Centre, Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania
Dates	27.06 – 02.07.2016
Principal subjects	OPTO-CH Workshop “Laser technologies in Cultural Heritage analysis, diagnosis and conservation”
Name of organisation	Institute of Electronic Structure & Laser Foundation for Research & Technology (IESL-FORTH), Heraklion, Greece
Dates	22.02 – 01. 04. 2016
Principal subjects	Cultural assets restorer – Establishing diagnostic
Name of organisation	Association for Patrimony Protection, Romania
Dates	19-21.02.2016
Principal subjects	Trainer course
Name of organisation	Training-Romania, CEPECOM-Professional Training Centre, Bucharest, Romania
Dates	27.10-05.11.2014
Principal subjects	Radiologic security in ionising radiations activities – X-ray generators and non-destructive X-ray control
Name of organisation	Nuclear Training Centre, Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania

Dates	2008-2011
Title awarded	Ph.D.
Principal subjects	Surface water peculiarities with an impact on life quality
Name of organisation	Doctoral School of Physics, University of Bucharest, Bucharest, Romania
Dates	June 2011
Principal subjects	“World Wide Workshop for Young Environmental Scientists”, International PhD course. Training in: oral presentations and project proposals
Name of organisation	“Centre d'enseignement et de recherche sur l'eau, la ville et l'environnement”, Paris, France
Dates	February 2010 – June 2010
Principal subjects	Research stage on the study of the interactions of organic matter with contaminants, bioavailability and toxicity impact in aquatic environments
Name of organisation	Laboratoire de Physico-Toxico-Chimie de l'Environnement, Institut des Sciences Moléculaires, Université Bordeaux 1, Bordeaux, France
Dates	2003-2008
Title awarded	Diploma engineer
Principal subjects	Computational Physics
Name of organisation	Faculty of Physics, University of Bucharest, Bucharest, Romania

Awards / Diplomas

Dates	29 martie-2 aprilie 2017
Award	Medalie de aur
Name of organisation	al 45-lea Salon Internațional de Invenții de la Geneva
Dates	2008-2011
Award	POSDRU Scholarship
Name of organisation	University of Bucharest, Bucharest, Romania

Others

Dates	November 2008
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Description	Certificate of attendance at the Post graduate course of advanced studies “Achievements and perspective in biology”, major theme covered “Impact of the environmental factors over biodiversity”, University of Biology Bucharest
Dates	September 2008
Description	Certificate of attendance at the National VIASAN-CEEX Symposium (module 1), National Authority for Scientific Research
Dates	September 2008
Description	Auditor diploma from the Audit course for third party auditors in accordance with SR EN ISO 19011:2003 quality management systems of the SR EN ISO 9001:2001, QI Consulting

Hirsch index: 5

Total number of citations: 111

Researcher ID profile: <http://www.researcherid.com/rid/B-5186-2012>

Annexe 1. Selective list of publications

ANNEXE 1. LIST OF ISI PUBLICATIONS

- 1. Uncovering hidden jewels: an investigation of the pictorial layers of an 18th-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.
- 2. 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
- 3. 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
- 4. 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.
- 5. 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. Ratoiu, 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
- 6. 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
- 7. 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
- 8. 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. Ratoiu, L. Ghervase, I.M. Corcea,

P. Ortiz, *Scanning*, vol. 2019, Article ID 2852804, 14 pages, <https://doi.org/10.1155/2019/2852804>, 2019,

9. **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. Cortea, R. Rădvan, C. Bors, *Archaeological and Anthropological Sciences*, DOI 10.1007/s12520-017-0502-9
10. **Corroborated X-ray imaging and elemental analysis for obtaining quantitative information from radiographs**, A. Chelmuş, R. Radvan, L. Ghervase, *Optoelectronics And Advanced Materials –Rapid Communications*, Vol. 12, No. 5-6, May-June 2018, p. 314 -318
11. **Complementary investigations of two Lipovan-style icons**, L. Ghervase, IM Cortea, R. Rădvan, L. Ratoiu, A. Chelmuş, *Microchemical Journal*, 2018, 138, 509-518
12. **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
13. **Characterization of Human Skin by Fluorescence, Exemplified by Dermatofibroma, Keratoacanthoma, and Seborrheic Keratosis**, L. Ghervase, D. Savastru, S. Dontu, A.M. Forsea, E. Borisova, *Analytical Letters*, 2016, 49(3), 342-349
14. **Bringing light into the diagnosis of skin disorders - short review on laser induced fluorescence spectroscopy and optical coherence tomography in dermatology**, L. Ghervase, E.M. Carstea, E. Borisova, A.M. Forsea, *Current Medical Imaging Reviews*, 2014, 10(4), 297-304
15. **Comparison of photocatalytic treatment effectiveness on sewage and industrial wastewaters**, G. Pavelescu, C. Uyguner-Demirel, M. Bekbolet, L. Ghervase, C. Ioja, *Environmental Engineering and Management Journal*, 2014, 13(8), 2015-2021
16. **Evaluation of thermal treatment in decontaminating soils polluted with crude oil**, L. Ghervase, S. Dontu, D. Savastru, *Book Series: International Multidisciplinary Scientific GeoConference-SGEM*, 2014, II, 123-130
17. **Spatial arrangement flaws in rural areas evidenced by dissolved organic matter distribution in groundwater**, L. Ghervase, C.I. Ioja, R. Spiridon, G. Pavelescu, *Book Series: International Multidisciplinary Scientific GeoConference-SGEM*, 2014, I, 625-632
18. **Gender-related differences in the practices and attitudes of early detection in rumanian skin cancer patients**, Popescu I., Turcu G., Ghervase L., Forsea A.M., Giurcaneanu C., *Acta Endocrinologica-Bucharest*, 2013, 9(3), 419-428
19. **Spectral fingerprints of groundwater organic matter in rural areas**, G. Pavelescu, L. Ghervase, C. Ioja, S. Dontu, R. Spiridon, *Romanian Reports in Physics* 2013, 65(3), 1105-1113
20. **Risk factors, preventive behaviors and awareness of Romanian skin cancer patients**, Turcu G., Popescu I., Ghervase L., Giurcaneanu C., Forsea A.M., *Journal der Deutschen Dermatologischen Gesellschaft*, 2013, 11(7), 102-103
21. **Optical and structural characterization of samarium and europium-doped phosphate glasses**, Elisa M., Sava, B.A., Vasiliu I.C., Monteiro R.C.C., Veiga J.P., Ghervase L., Feraru I., Iordanescu R., *Journal of Non-crystalline Solids* 2013, 369, 55-60

22. **Investigations on optical, structural and thermal properties of phosphate glasses containing terbium ions**, M. Elisa, B.A. Sava, I.C. Vasiliu, R.C.C. Monteiro, C.R. Iordanescu, I.D. Feraru, L. Ghervase, C. Tanaselia, M. Senila, B. Abraham, *2nd International Conference on Competitive Materials and Technological Processes (IC-CMTP2), Book Series: IOP Conference Series-Materials Science and Engineering*, 2013, 47, Article Number: 012025, DOI: 10.1088/1757-899X/47/1/012025
23. **Two approaches characterizing the chaotic behavior of neurons**, Ciobanu M., Turcus V., Savastru D., Ardelean A., Cotoraci C., Savastru R., Carstea E. M., Ghervase L., *Digest Journal of Nanomaterials and Biostructures* 2012, 7(4), 1519-1525
24. **Human daily activities reflected by the ecological state of natural water resources**, Luminita Ghervase, Cristian Ioja, Elfrida M. Carstea, Dan Savastru, *Environmental Engineering and Management Journal*, 2012, 11(3), 567-571
25. **Real-time monitoring of a petroleum product contamination on an urban river**, Elfrida M. Carstea, Luminita Ghervase, Gabriela Pavelescu, Marina Tautan, *Environmental Engineering and Management Journal*, 2012, 11(2), 279-283
26. **Correlation of dissolved organic matter fluorescence and several metals concentration in a freshwater system**, Carstea E.M., Ghervase L., Pavelescu G., Ioja C.I., *2011 International Conference of Environment-Landscape-European Identity, Book Series: Procedia Environmental Sciences*, 14, 41-48, Eds. Patru Stupariu I., Patroescu M.; Ioja C.I., Rozyłowicz L.
27. **Synthesis and characterization of CdSe-doped Li₂O-Al₂O₃-P₂O₅ glass**, Vasiliu I.C., Elisa M., Niciu H., Iordanescu R., Feraru I., Ghervase L., 2012 12TH IEEE CONFERENCE ON NANOTECHNOLOGY (IEEE-NANO)
28. **Storage effect on fluorescence signal of dissolved organic matter components**, Luminita Ghervase, Marie-Ange Cordier, Fabienne Ibalot, Edith Parlanti, *Romanian Reports in Physics*, 2012, 64(3), 754-760
29. **Luminescence of arsenic sulphide dots doped with Europium, prepared by thermal evaporation and pulsed laser deposition methods**, M. Popescu, A. Velea, I.D. Simandan, F. Sava, A. Lorinczi, L. Ghervase, G. Pavelescu, I.N. Mihailescu, G. Socol, S. Georgescu, *Chalchogenide Letters*, 2011, 8(12), 718-724
30. **Investigations of the neodymium doped quartz glasses obtained by the hybrid sol-gel method**, Niciu, H., Vasiliu, C., Manea, A., Radu, D., Secu, M., Onose, C., Ghervase, L., Niciu, D., Feraru, I.D., Grigorescu, C.E.A., *Optoelectronics And Advanced Materials – Rapid Communications*, 2010, 4(10), 1620-1623
31. **Combined optical techniques for skin lesion diagnosis: short communication**, E.M. Cârstea, L. Ghervase, G. Pavelescu, D. Savastru, A.M. Forsea, E. Borisova, *Optoelectronics and Advanced Materials – Rapid Communications*, 2010, 4(12), 1960-1963
32. **Fluorescence Evaluation of Drinking Water Organic Contamination**, Luminita Ghervase, Elfrida M. Cârstea, Dan Savastru, Gabriela Pavelescu, *Environmental Engineering and Management Journal* 2010, 9(11), 897-901
33. **Laser induced fluorescence efficiency in water quality assessment**, L. Ghervase, E.M. Cârstea, G. Pavelescu, D. Savastru, *Romanian Reports in Physics*, 2010, 62(3), 652–659

34. **Fluorescence evaluation of anthropogenic influence on rivers crossing Sofia,** L. Ghervase, E. M. Cârstea, G. Pavelescu, E. Borisova, A. Daskalova, *Romanian Reports in Physics*, 2010, **62**(1), 193–201
35. **Assessment of the anthropogenic impact on water systems by fluorescence spectroscopy,** E.M. Cârstea, L. Ghervase, G. Pavelescu, D. Savastru, *Environmental Engineering and Management Journal* 2009, **8**(6), 1321-1326
36. **Evaluation of petroleum contaminants in soil by fluorescence spectroscopy,** L. Cristescu (Ghervase), G. Pavelescu, E.M. Cârstea, D. Savastru, *Environmental Engineering and Management Journal* 2009, **8**(5), 1269-1273
37. **Comparison between the characteristics of dissolved organic matter and nitrate content in an urban river,** E. M. Cârstea, G. Pavelescu, L. Cristescu (Ghervase), D. Savastru, *U.P.B. Sci. Bull., Series A*, 2009, **71**(3), 105-110
38. **Light-induced fluorescence spectroscopy and optical coherence tomography of basal cell carcinoma,** E. Borisova, E. M. Cârstea, L. Cristescu (Ghervase), E. Pavlova, N. Hadjiolov, P. Troyanova, L. Avramov, *Journal of Innovative Optical Health Sciences*, 2009, **2**(3), 1–8
39. **Magnetic two beams undulator,** Leonovici M.R., Niculescu V.I.R., Cristescu (Ghervase) L., Scarisoreanu A., *Romanian Journal of Physics*, 2008, **53**(5-6), 771-774