

Personal information



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

Work experience

Dates	2016 - present
Position held	Scientific researcher II rd 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 III rd 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	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	2008-2011
Award	POSDRU Scholarship
Name of organisation	University of Bucharest, Bucharest, Romania

Others

Dates	November 2008
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: 87

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

Annexe 1. Selective list of publications

ANNEXE 1. LIST OF PUBLICATIONS

A. ISI PAPERS

- A-1. 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
- A-2. 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
- A-3. 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
- A-4. 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
- A-5. 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
- A-6. 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
- A-7. 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
- A-8. 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
- A-9. 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
- A-10. 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
- A-11. 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
- A-12. 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

- A-13. 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
- A-14. 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
- A-15. 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., Rozylowicz L.
- A-16. 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)
- A-17. 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
- A-18. 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
- A-19. 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
- A-20. 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
- A-21. 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
- A-22. 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
- A-23. 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
- A-24. 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
- A-25. 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

- A-26. 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
- A-27. 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
- A-28. 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

B. NON-ISI PAPERS

- B-1. Fluorescence-based spectroscopic techniques for cultural heritage investigations**, L. Ghervase, Proceedings of Worldwide Open Workshop with Advanced Techniques for Cultural Heritage Conference, 27-28 octomber, 2016, Bucharest. Eds. R. Rădvan, M. Dumbrăvicean, București: Editura UNARTE, 2016, ISBN: 978-606-720-071-3
- B-2. Tunability of hexagonal and triangular photonic crystals**, M. Ciobanu, L. Preda, D. Savastru, R. Savastru, E.M. Carstea, L. Ghervase, S. Dontu, A. Marin, *Moldavian Journal of the Physical Sciences*, 2012, **11**(4), 334-339, ISSN 1810-648X
- B-3. Photonic band structures of 2D photonic crystals with half-elliptical holes**, A. Marin, L.A. Preda, M. Ciobanu, D. Savastru, E.M. Carstea, L. Ghervase, S. Dontu, *Moldavian Journal of the Physical Sciences*, 2012, **11**(4), 340-346, ISSN 1810-648X
- B-4. Evaluation of lentic ecosystems from Bucharest City**, Luminița Ghervase, Cristian Iojă, Elfrida M. Cârstea, Lidia Niculiță, Dan Savastru, Gabriela Pavelescu, Gabriel Vanau, *International Journal of Energy and Environment*, Vol. 5, Iss. 2, p. 183-192, 2011
- B-5. Spectroscopic and physico-chemical evaluation of lentic ecosystems from Bucharest City**, L. Ghervase, C. Iojă, E.M. Cârstea, D. Savastru, G. Pavelescu, M. Niță, L. Niculiță, *Proc. 6th WSEAS Int. Conf. on Energy, and Sustainable Development (EEESD'10)* (2010), pag. 272-277
- B-6. Changes in water quality in the lakes along Colentina River under the influence of the residential areas in Bucharest**, C. Iojă, D. Onose, A. Cucu, L. Ghervase, *Proc. 6th WSEAS Int. Conf. on Energy, Environment, Ecosystems and Sustainable Development (EEESD'10)* (2010), pag. 164-169