


PERSONAL INFORMATION

Liviu Leontie



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Sex M | Nationality Romanian

WORK EXPERIENCE

10.2014 – present

Professor Habilitated

Alexandru Ioan Cuza University of Iași (UAIC) <https://www.uaic.ro/en/>

-Teaching and research; Erasmus+ Coordinator, Faculty of Physics Condensed Matter and Atmospheric Physics / Preparation, structural and optical characterization, environmental applications of oxide and III-VI thin films and related structures.

[Business or sector](#) Education

10.2005 – 09.2014

Associate Professor

Alexandru Ioan Cuza University of Iași <https://www.uaic.ro/en/>

-Teaching and research; Erasmus+ Coordinator, Faculty of Physics (2012–2014) Condensed Matter Physics / Preparation, structural and optical characterization of organic, oxide and III-VI thin films and related structures

[Business or sector](#) Education

10.1997 – 09.2005

Lecturer

Alexandru Ioan Cuza University of Iași <https://www.uaic.ro/en/>

-Teaching and research; General Physics, Solid-State Physics / Preparation, structural and optical characterization of organic and oxide thin films

[Business or sector](#) Education

10.1990 – 09.1997

Assistant Professor

Alexandru Ioan Cuza University of Iași <https://www.uaic.ro/en/>

-Teaching and research; General Physics, Solid-State Physics / Preparation, structural and optical characterization of oxide thin films

[Business or sector](#) Education

09.1990 – 09.1990

High School Teacher

Several high schools in Iași

-Teaching

[Business or sector](#) Education

EDUCATION AND TRAINING

2016

Thermal Analysis Seminar / Training; April 12, 2016.

Gheoghe Asachi Technical University of Iași; organizer: Sartorom Impex SRL.

-Thermal analysis of polymeric materials; thermal analysis of construction materials.

2016

How to write a successful Horizon 2020 framework programme / Training at UAIC; October 10–11, 2016.

	Transnational actions to support successful participation in Horizon 2020.
2016	<p>Radiation protection in diagnostic and interventional radiology / Training course; Level 2 Licence; October, 2016. S.C. Micorad X-Ray S.R.L. Iași; CNCAN (National Commission for Nuclear Activities Control).</p>
2013	<p>Habilitation in Physics Alexandru Ioan Cuza University of Iași Ph. D. supervisor</p>
2009	<p>Radiological safety in the use of ionising radiation sources / Training course; Level 2 Licence "Horia Hulubei" National Institute of Physics and Nuclear Engineering - IFIN HH, Bucharest-Măgurele -Working with ionising radiation sources and radiological safety.</p>
2001	<p>Utilization of Radioactive Isotopes / Postgraduated course; Diploma University of Bucharest, Faculty of Physics (Bucharest-Măgurele). - Working with radioactive isotopes.</p>
November 1 – 30, 2000	<p>Research Stay Max Planck Institute of Microstructure Physics, Halle, Germany.</p>
1999	<p>Ph. D. in Physics Alexandru Ioan Cuza University of Iași</p>
1980	<p>B. Sc. in Physics; Diploma Alexandru Ioan Cuza University of Iași</p>
1976 – 1980	<p>Faculty of Physics Alexandru Ioan Cuza University of Iași</p>

RESEARCH	<p>a) Physics of low-dimensional semiconductor materials and structures (transport, optical properties of oxide materials, layered III–VI materials and organic semiconductors); Atmospheric/Environmental Physics / published papers-92 WOS (including 4 reviews) quoted, 3-non-ex-ISI, 2-Romanian Academy journals; 8-University Annals. b) <i>H</i>-index: 20; WOS citations: over 1400. c) over 120 participations in international and over 80 national conferences (oral and poster).</p>
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PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Replace with name of language certificate. Enter level if known.					
French	C1	C1	C1	C1	C1
Russian	A2	A2	A2	A2	A2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills gained through my experience as university and high school teacher and researcher.

Organisational / managerial skills

- leadership (currently responsible for a team of 3 people, 1 Laboratory);
- team work (coordinating researcher in 1 grant; team member in 28 research grants);
- academic management (Faculty Council member, 2008–2012; LLP-Erasmus, Erasmus+ coordinator of the Faculty;
- organization of scientific meetings (both national and international-8), including section chairman (3 international conferences);
- member of CNADTCU, The National Council for Attestation of University Titles, Diplomas and Certificates (2017–2020).
- ARACIS (Romanian Agency for Quality Assurance in Higher Education) evaluator (2019–present).

Job-related skills

- Teaching units and Curriculum Planning
- Effective Communication, including online
- Leadership Skills
- Team working
- Time management
- Technological skills
- Critical thinking and problem-solving
- Compassion & Empathy

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

-Adobe Acrobat, Microsoft package, graphics (CorelDRAW) and specific scientific software (Origin, Excel, structural analysis)

Other skills

- expertise in assessment of projects (INTAS);
- "peer review" activities: reviewer of about 20 international journals;
- board member of 2 national and 3 international journals.

ADDITIONAL INFORMATION

Invited Professor Erasmus Mundus mobilities Université Lille 1, U.F.R. de Physique, 27.02–31.03.2013.
 IANUS teaching mobility: Moldova State university, Faculty of Physics and Engineering, 02.09.2013–01.10.2013.
 Postdoctoral mobility, Al Idrisi II: University of Science and Technology of Oran-Mohamed Boudiaf (USTO-MB), 01.10.2014–31.03.2015.

International doctoral commissions Doctoral Committee, Faculty of Science Dhar El Mehraz, Sidi Mohamed Ben Abdellah University, Fez (Morocco), 19 June 2019.

- Publications** L. Leontie, I. Evtodiev, V. Nedeff, M. Stamate, and M. Caraman, "Photoelectric properties of Bi₂O₃/GaSe heterojunctions", *Applied Physics Letters*, 94 (7), 071903 (2009).
- Projects** Integrated Center for Studies in Environmental Sciences for the (Romanian) North-East Development Region (Acronym CERNESIM) (2010–2014); National Program Capacities, Project no. 257 / 28.09.2010; *Coordinating researcher (group head)*; over 240,000 EUR.
Mobility Projects for Researchers, Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), grant nos. PN-III P1-1.1-MC-2017-1800; PN-III P1-1.1 MC-2018-0386.
JINR–RO grants nos: 04-4-1121-2015/2017, 04-4-1141-2020/2022 (director).
Grant PN-III-P1-1.1-MCD-2021-0031, MCD (Program 1 Subprogram 1.1 - Human Resources, MOBILITY PROJECTS FOR EXPERIENCED RESEARCHERS FROM DIASPORA (Director).
- Seminars**
- Memberships** "Thin films and related structures of oxide and layered III–VI group semiconductors. Optoelectronic and energy applications."
Holon Institute of Technology (H.I.T.) Physics Seminar talk; Holon, May 18, 2017.
- References** European Physical Society (EPS), European Materials Research Society (EMRS), IEEE (member no. 90316708, 2008), PHANTOMS, TMS, The Minerals, Metals & Materials Society (TMS, 2001), Romanian Physical Society.
- Who's Who in Science and Engineering; "2000 OUTSTANDING SCIENTIST OF THE 21st CENTURY", IBC, 2003–2008 and 2011; The 21st Century Award for Achievement and The IBC (International Bibliographical Centre, Cambridge) Living Science Award; International Scientist of the Year, 2003–2008, as well as in Who is Who (Encyclopedia of Romanian Personalities, 2011).

ANNEXES

- publications;
- projects.

ANNEX

1-List of published papers, Web of Science-quoted journals

1. V. Şunel, G. I. Rusu, G. G. Rusu, **L. Leontie**, C. Şoldea
"Electrical characteristics of some derivatives of p-aminobenzoic acid in thin films"
Progress in Organic Coatings, **26 (1)** (1995), 53–61 (Review).
2. V. Şunel, M. Rusu, G. I. Rusu, N. Asandei, **L. Leontie**
"Cellulose Derivatives of Some New Hydrazides with Semiconducting Properties"
Cellulose Chemistry and Technology, **31 (5–6)** (1997), 309–314.
3. Mihaela Rusu, A. Airinei, **L. Leontie**, Diana Mardare, and G.I. Rusu
"On the Semiconducting Properties of Some Bisphenolic Chelate Polymers in Thin Films"
Physics of Low-Dimensional Structures, **5 (6)** (1998), 31–42.
4. **L. Leontie**, M. Caraman, G. I. Rusu
"On the Photoconductivity of Bi₂O₃ in Thin Films"
Journal of Optoelectronics and Advanced Materials, **2 (4)** (2000), 385–389.
5. G. I. Rusu, I. Căplănuş, **L. Leontie**, A. Airinei, E. Butuc, D. Mardare, and I. I. Rusu
"Studies on the Electronic Transport Properties of some Aromatic Polysulfones in Thin Films"
Acta Materialia, **49 (3)** (2001), 553–559.
6. **L. Leontie**, M. Caraman, M. Delibas, and G. I. Rusu
"Optical Properties of Bismuth Trioxide Thin Films"
Materials Research Bulletin, **36 (9)** (2001), 1629–1637.
7. **L. Leontie**, M. Caraman, M. Alexe, C. Harnagea
"Structural and optical characteristics of bismuth oxide thin films"
Surface Science **507–510** (2002), 480–485.
8. **L. Leontie**, Mihaela Roman, I. Căplănuş, G. I. Rusu
"On the electronic transport properties of some disubstituted carbanion pyridazinium ylids in thin films"

- Progress in Organic Coatings* **44 (4)** (2002), 287–293 (Review).
9. Valentina Chiricenco, M. Caraman, I. I. Rusu, **L. Leontie**
“On the luminescence of GaS(Cu) single crystals”
Journal of Luminescence **101 (1–2)** (2003), 71–77.
10. **L. Leontie**, M. Roman, F. Brinza, C. Podaru, G. I. Rusu
“Electrical and optical properties of some new synthesized ylides in thin films”
Synthetic Metals **138 (1–2)** (2003), 157–163.
11. **L. Leontie**, Ivona Olariu, and G. I. Rusu
“On the charge transport in some new carbanion disubstituted ylides in thin films”
Materials Chemistry and Physics **80 (2)** (2003), 506–511.
12. **L. Leontie**, I. Druta, R. Alupoae, and G. I. Rusu
“On the electronic transport in some new synthesized high resistivity organic semiconductors in thin films”
Materials Science and Engineering B, **100 (3)** (2003), 252–258.
13. **L. Leontie**, M. Caraman, A. Visinoiu, G.I. Rusu
“On the optical properties of bismuth oxide thin films prepared by pulsed laser deposition”
Thin Solid Films **473 (2)** (2005), 230–235.
14. **L. Leontie**, I. Druta, R. Danac, M. Prelipceanu, and G.I. Rusu
“Electrical properties of some new high resistivity organic semiconductors in thin films”
Progress in Organic Coatings, **54 (3)** (2005), 175–181 (Review).
15. **L. Leontie**, I. Druta, R. Danac, and G.I. Rusu
“On the electronic transport properties of pyrrolo[1,2-a][1,10]phenanthroline derivatives in thin films”
Synthetic Metals, **155 (1)** (2005), 138–145.
16. **L. Leontie**, I. Druta, A. Rotaru, C. Podaru and G.I. Rusu
“On the electronic transport properties of 4,4'-bipyridinium dibromides in thin films”
Materials Chemistry and Physics, **97 (2–3)** (2006), 476–480.
17. **L. Leontie** and R. Danac
“Optical properties of some new synthesized organic semiconductors in thin films”
Scripta Materialia, **54 (2)** (2006), 175–179.
18. **L. Leontie**, G.I. Rusu
“On the electronic transport properties of bismuth oxide thin films”
Journal of Non-Crystalline Solids, **352 (9–20)** (2006), 1475–1478.
19. **L. Leontie**, I. Druta, R. Danac
“Electrical conduction mechanism in N-(p-R-phenacyl)-4,5-diazafluorenum-9-one bromides thin films”
Synthetic Metals, **156 (2–4)** (2006) 224–229.
20. **L. Leontie**
“Optical properties of bismuth oxide thin films prepared by reactive magnetron sputtering”
Journal of Optoelectronics and Advanced Materials **8 (3)** (2006), 1221–1224.
21. I. Caraman, G. I. Rusu, **L. Leontie**
“Photoelectrical and optical properties of Cd_{1-x}Mn_xTe single crystals and thin films”
Journal of Optoelectronics and Advanced Materials, **8 (1)** (2006), 107–111.
22. E. Cuculescu, Ig. Evtodiev, M. Caraman, **L. Leontie**
“Study of generation-recombination processes of non-equilibrium charge carriers in single crystalline thin GaSe(Cu) films”
Journal of Optoelectronics and Advanced Materials, **8 (1)** (2006), 112–118.
23. I. Caraman, G. I. Rusu, **L. Leontie**
“Fundamental absorption edge in thin films of Cd_{1-x}Mn_xTe solid solutions”
Journal of Optoelectronics and Advanced Materials, **8 (3)** (2006), 927–930.
24. I. Căplănuș, Mihaela Rusu, G.G. Rusu and **L. Leontie**
“On the electronic transport properties of some thiosemicarbazide derivatives complexed with nickel cations”
Materials Chemistry and Physics, **101 (1)** (2007) 77–80.
25. Gheorghe Rusu, Elena Rusu, **Liviu Leontie**, Gheorghe I. Rusu
“Electrical DC Conduction Mechanism in Some Newly Synthesized Nylon 6/12 Copolymers”
Journal of Polymer Science Part B: Polymer Physics **45 (7)** (2007), 794–799.
26. **L. Leontie**, I. Druta, B. Furdui, G.I. Rusu
“On the mechanism of electrical conduction in some new quaternary salts of bipyridine and indolizine pyridine in thin films”
Progress in Organic Coatings **58 (4)** (2007) 303–311 (Review).
27. Marius Prelipceanu, Otilia-Sanda Prelipceanu, Ovidiu-Gelu Tudose, **Liviu Leontie**, Bernd Grimm and Sigurd Schrader,
“Study of thermal conversion and patterning of a new soluble poly (p-phenylenevinylene) (PPV) precursor”
Materials Science in Semiconductor Processing **10 (2–3)** (2007) 77–89.

28. M. Prelipceanu, O.S. Prelipceanu, **L. Leontie** and R. Danac
“Photoelectron spectroscopy investigations of pyrrolo[1,2-a][1,10]phenanthroline derivatives”
Physics Letters A **368** (3–4) (2007) 331–335.
29. I. Caraman, G. I. Rusu, **L. Leontie**
“The photoluminescence of CdTe thin films in SnO₂-CdS/CdTe-Ni solar cells thermally treated in CdCl₂ solution”
Journal of Optoelectronics and Advanced Materials **9** (5) (2007) 1546–1550.
30. **L. Leontie**, R. Danac, I. Druta and G.I. Rusu
“Electronic transport properties of 1-(p-R-phenacyl)-4-[[1-(1'-ethylcarboxylate)-(3'-p-R'-phenacyl)]-7'-indoliziny]pyridinium bromides in thin films”
Thin Solid Films **516** (7) (2008) 1599–1603.
31. **Liviu Leontie**, Mihail Caraman, Igor Evtodiev, Elmira Cuculescu, Ana Mija
“Optical properties of bismuth oxide thin films prepared by reactive d.c. magnetron sputtering onto p-GaSe (Cu)”
Physica Status Solidi (a) **205** (8) (2008) 2052–2056.
32. M. Caraman, V. Chiricenco, **L. Leontie**, I.I. Rusu
“Photoelectrical properties of layered GaS single crystals and related structures”
Materials Research Bulletin **43** (12) (2008) 3195–3201.
33. I. Evtodiev, **L. Leontie**, M. Caraman, M. Stamate, and E. Arama
“Optical properties of p-GaSe single crystals doped with Te”
Journal of Applied Physics **105** (2) 023524 (2009).
34. **L. Leontie**, I. Evtodiev, V. Nedeff, M. Stamate, and M. Caraman
“Photoelectric properties of Bi₂O₃/GaSe heterojunctions”
Applied Physics Letters **94** (7) 071903 (2009).
35. **L. Leontie**, I. Druta, Al. Rotaru, N. Apetroaei, G.I. Rusu
“Electronic transport properties of some new monoquaternary salts of 4,4'-bipyridine in thin films”
Synthetic Metals **159** (7–8) (2009) 642–648.
36. **L. Leontie**, I. Druta, B. Furdui, V. Nica, and G.I. Rusu
“Electrical d.c. conduction mechanism in some newly synthesized mono- and dipyridine quaternary salts in thin films”
Synthetic Metals **159** (17–18) (2009) 1831–1836.
37. **L. Leontie**, R. Danac, I. Druta, A. Carlescu, and G.I. Rusu
“Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties”
Synthetic Metals **160** (11–12) (2010) 1273–1279.
38. S. Condurache-Bota, G. I. Rusu, N. Tigau, and **L. Leontie**
“Important physical parameters of Bi₂O₃ thin films found by applying several models for optical data”
Crystal Research and Technology **45** (5) (2010) 503–511.
39. **L. Leontie**, R. Danac, I. Druta, A. Carlescu, G.I. Rusu
“Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films”
Synthetic Metals **160** (23–24) (2010) 2526–2533.
40. **L. Leontie**, R. Danac, N. Apetroaei, and G.I. Rusu
“Study of electronic transport properties of some new N-(p-R-phenacyl)-1,7-phenanthroline bromides in thin films”
Materials Chemistry and Physics **127** (3) (2011) 471–478.
41. M. Airimioaei, C.E. Ciomaga, N. Apostolescu, **L. Leontie**, A.R. Jordan, L. Mitoseriu, M. N. Palamaru
“Synthesis and functional properties of the, Ni_{1-x}Mn_xFe₂O₄ ferrites”
Journal of Alloys and Compounds **509** (31) (2011) 8065–8072.
42. E. Cuculescu, I. Evtodiev, I. Caraman, **L. Leontie**, V. Nedeff, Dragoş-Ioan Rusu
“Transport and generation-recombination mechanisms of nonequilibrium charge carriers in ZnO/In₂O₃/InSe:Cd heterojunctions”
Thin Solid Films **519** (21) (2011) 7356–7359.
43. Tamara Slatineanu, Alexandra Raluca Jordan, Mircea Nicolae Palamaru, Ovidiu Florin Caltun, Vasilica Gafton, **Liviu Leontie**
“Synthesis and characterization of nanocrystalline Zn ferrites substituted with Ni”
Materials Research Bulletin **46** (9) (2011) 1455–1460.
44. Silvia Evtodiev, Iulia Caraman, Liliana Dmitroglou, **L. Leontie**, V. Nedeff, A. Dafinei, G. Lazar, and I. Evtodiev
“Optical Properties of III–VI Lamellar Semiconductors Doped with Cu and Cd and of Related III–VI/Native Oxide Structures”
Journal of Nanoelectronics and Optoelectronics **6** (4) (2011) 502–513.
45. Bostan, D.C., Timofte, A., **Leontie, L.**
“Temperature-humidity index. Recent meteorological measurements in the Moldavia region”
Journal of Environmental Protection and Ecology **12** (3 A) (2011) 1592–1597.
46. Bibire, L., Ghenadi, A.S., Timofte, A., **Leontie, L.**, Buzdugan, M., Agop, M.
“Possible influences of aerosols on the Schumann frequency spectrum”

- Journal of Environmental Protection and Ecology* **12 (3 A)** (2011) 1288–1294.
- 47.** I. Evtodiev, I. Caraman, **L. Leontie**, D.-I. Rusu, A. Dafinei, V. Nedeff, G. Lazar
"Recombination luminescence and trap levels in undoped and Al-doped ZnO thin films on quartz and GaSe (0 0 0 1) substrates"
Materials Research Bulletin **47 (3)** (2012) 794–797.
- 48.** R. Danac, **L. Leontie**, A. Carlescu, G.I. Rusu
"DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films"
Materials Chemistry and Physics **134 (2–3)** (2012) 1042–1048.
- 49.** Liviu Leontie, Ramona Danac, Mihaela Girtan, Aurelian Carlescu, Alicia Petronela Rambu, Gheorghe I. Rusu
"Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films"
Materials Chemistry and Physics **135 (1)** (2012) 123–129.
- 50.** Ignas Vaiciulis, Mihaela Girtan, Anca Stanculescu, **Liviu Leontie**, Farid Habelhames, Stefan Antohe
"On Titanium Oxide Spray Deposited Thin Films for Solar Cells Applications"
Proceedings of The Romanian Academy, Series A **13 (4)** (2012) 335–342.
- 51.** M. Girtan, A. Vlad, R. Mallet, M. A. Bodea, J. D. Pedarnig, A. Stanculescu, D. Mardare, **L. Leontie**, S. Antohe
"On the properties of aluminium doped zinc oxide thin films deposited on plastic substrates from ceramic targets"
Applied Surface Science **274** (2013) 306–313.
- 52.** A. C. Druc, A. I. Borhan, G. G. Nedelcu, **L. Leontie**, A. R. Iordan, M. N. Palamaru
"Structure-dielectric properties relationships in copper-substituted magnesium ferrites"
Materials Research Bulletin **48** (2013) 4647–4654.
- 53.** Liviu Leontie, Igor Evtodiev, Nicolae Spalatu, Mihail Caraman, Silvia Evtodiev, Oxana Racovet, Mihaela Girtan, Cristian Focsa
"Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe"
Journal of Alloys and Compounds **584** (2014) 542–545.
- 54.** C. Doroftei, P. D. Popa, F. Iacomi, **L. Leontie**
"The influence of Zn²⁺ ions on the microstructure, electrical and gas sensing properties of La_{0.8}Pb_{0.2}FeO₃perovskite"
Sensors and Actuators B **191** (2014) 239–245.
- 55.** R. Danac, **L. Leontie**, M. Girtan, M. Preliceanu, A. Graur, A. Carlescu, G.I. Rusu
"On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films"
Thin Solid Films **556** (2014) 216–222.
- 56.** A. C. Druc, A. I. Borhan, A. Diaconu, A. R. Iordan, G. G. Nedelcu, **L. Leontie**, M. N. Palamaru
"How cobalt ions substitution changes the structure and dielectric properties of magnesium ferrite"
Ceramics International **40 (8)** (2014) 13573–13578.
- 57.** D. Untila, V. Cantser, M. Caraman, I. Evtodiev, **L. Leontie**, L. Dmitroglu
"Photoluminescent properties of lamellar nanocomposites obtained by Cd intercalation of GaSe and GaSe:Eu single crystals"
Physica Status Solidi C **1–5** (2014) / DOI 10.1002/pssc.201400127
- 58.** I. Caraman, E. Vatavu, **L. Leontie**, M. Stamate, and D. Untila
"Crystalline structure and optical properties of GaS-CdS nanocomposite"
Physica Status Solidi C **1–6** (2014) / DOI 10.1002/pssc.201400146.
- 59.** A. M. Dumitrescu, G. Lisa, A. R. Iordan, F. Tudorache, I. Petrilă, A. I. Borhan, M. N. Palamaru, C. Mihailescu, **L. Leontie**, C. Munteanu
"Ni ferrite highly organized as humidity sensors"
Materials Chemistry and Physics **156** (2015) 170–179.
- 60.** Cristina M. Al Matarneh, Ramona Danac, Liviu Leontie, Florin Tudorache, Iulian Petrilă, Felicia Iacomi, Aurelian Carlescu, Gigel Nedelcu, Ionel Mangalagiu
"Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films"
Environmental Engineering and Management Journal **14 (2)** (2015) 421–431.
- 61.** J. Merigeon, O. Maalej, B. Boulard, A. Stanculescu, **L. Leontie**, D. Mardare, M. Girtan
"Studies on Pr³⁺-Yb³⁺ Codoped ZBLA as Rare Earth Down Converter Glasses for Solar Cells Encapsulation"
Optical Materials **48** (2015) 243–246.
- 62.** D. Untila D., I. Caraman, I. Evtodiev, V. Cantser, N. Spalatu, **L. Leontie**, L. Dmitroglu, E. Luchian
"Crystalline structure, surface morphology and optical properties of nanolamellar composites obtained by intercalation of InSe with Cd"
Energy Procedia **84** (2015) 149 – 155.
(E-MRS Spring Meeting 2015, Symposium C - Advanced inorganic materials and structures for photovoltaics)
- 63.** A. I. Borhan, M. Gromada, G. G. Nedelcu, **L. Leontie**
"Influence of (CoO, CaO, B₂O₃) additives on thermal and dielectric properties of BaO–Al₂O₃–SiO₂ glass–ceramic sealant for OTM applications"
Ceramics International **2 (8)** (2016) 10459–10468.

64. Iuliana Caraman, Liliana Dmitroglu, Igor Evtodiev, **Liviu Leontie**, Dumitru Untila, Saad Hamzaoui, Mokhtar Zerdali, Oana Șușu, Georgiana Bulai, Silviu Gurlui
"Optical properties of ZnO thin films obtained by heat treatment of Zn thin films on amorphous SiO₂ substrates and single crystalline GaSe lamellas"
Thin Solid Films **617 B** (2016) 103–107.
65. Cazacu, M. M., Tudose, O. G., Timofte, A., Rusu, O., Apostol, L., **Leontie, L.**, Gurlui, S.
"A case study of the behavior of aerosol optical properties under the incidence of a saharan dust intrusion event"
Applied Ecology and Environmental Research **14 (3)** (2016) 183-194.
66. Ramona Danac, **Liviu Leontie**, Aurelian Carlescu, Sergiu Shova, Vasile Tiron, George G. Rusu, Felicia Iacomi, Silviu Gurlui, Oana Susu, Gheorghe I. Rusu
"Electric Conduction Mechanism of Some Heterocyclic Compounds, 4,4 - Bipyridine and Indolizine Derivatives in Thin Films"
Thin Solid Films **612** (2016) 358–368.
67. Iuliana Caraman, Nicolae Spalatu, Igor Evtodiev, Dumitru Untila, **Liviu Leontie**, and Mihail Caraman
"Photoelectric and photoluminescence properties of CdTe–GaTe composite"
Physica Status Solidi B **1–8** (2016) / DOI 10.1002/pssb.201600485.
68. Laura Hrostea, Mihaela Boclinca, Marcela Socol, **Liviu Leontie**, Anca Stanculescu, Mihaela Girtan
"New Oxide/Metal/Oxide Electrodes For Solar Cells Applications"
Solar Energy **146** (2017) 464–469.
69. C. Doroftei, **L. Leontie**, A. Popa
"The study on nanogranular system manganites La–Pb–Ca–Mn–O which exhibits a large magnetoresistance near room temperature"
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“Sequential Synthesis Methodology Yielding Well-Defined Porous 75%SrTiO₃/25%NiFe₂O₄ Nanocomposite”
Nanomaterials **12** (2022), 138; <https://doi.org/10.3390/nano12010138>

2-List of relevant grants

Project Name	Position	Period
Structural studies of some new nanostructures and nanocomposites for dental applications JINR–RO grants, Project. no. 04-4-1141-2020/2022	Responsible person from Romania	2021–2022
Research center with integrated techniques for investigating atmospheric aerosols in Romania (RECENT AIR), MySMIS code:	Team member	2021–present

127324 Competitiveness Operational Program 2014–2020		
Integrated Center for Studies in Environmental Sciences for the (Romanian) North-East Development Region (Acronym CERNESIM) National Program Capacities Project no. 257 / 28.09.2010	<i>Coordinating researcher (group head)</i>	2010–2014
Thin films and nanostructures for advanced optoelectronic, spintronics and sensor applications PN-II-CT-RO-FR-2012-1-0065 Romania-France bilateral project	<i>Team member</i>	2010–2014
Thin oxide/polymeric films devices and processes for electronics and transparent optoelectronics (Acronym ELOTRANSP) Grant no. 12128/01.11.2008-CNMP	<i>Team member</i>	2008–2011
Multifunctional advanced materials doped with Ag nanopowders (Acronym MATNANTECH) CEEX Project no. 26/2005	<i>Team member</i>	2006–2008
Preparation and characterization of nanostructured thin semiconducting films used in photovoltaic modules fabrication (Acronym: PRELASS) CEEX Project no. 89/2006	<i>Team member</i>	2006–2008
New semiconducting nanomaterials with possible applications in solid-state gas and vapor sensors for environmental protection CEEX Project no. 2-CEEX 06-11-51-1/ 01.08.2006	<i>Team member</i>	2006–2008
Development of mixed technologies for micro/nanostructures and integrated photonic systems with communications applications (Acronym FOTONTECH), CEEX Project PC-D, 16 03/07.10.2005	<i>Team member</i>	2005–2007
Researches on improvement of certain specific characteristics of oxide semiconductor materials, with a view of their application in gas/vapor detection CERES Project no. 4-64/2004	<i>Team member</i>	2004, 2005
Study of transport and optical properties of certain semiconducting compounds in thin films A-type grant tip A, CNCSIS code 1341/2003.	<i>Team member</i>	2003, 2004

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