

## LISTA PUBLICAȚIILOR

### A. LISTA CELOR MAI RELEVANTE 10 ARTICOLE cotate în Thomson Reuters (fost ISI) Web of Knowledge

- 1. Autor(i):** I. Evtodiev, I. Caraman, **L. Leontie**, D.-I. Rusu, A. Dafinei, V. Nedeff, G. Lazar  
*Titlu:* Recombination luminescence and trap levels in undoped and Al-doped ZnO thin films on quartz and GaSe (0 0 0 1) substrates  
*Revista: Materials Research Bulletin* **47 (3)** (2012), 794–797.
- 2. Autor(i):** E. Cuculescu, I. Evtodiev, I. Caraman, **L. Leontie**, V. Nedeff, D. -I. Rusu  
*Titlu:* Transport and generation-recombination mechanisms of nonequilibrium charge carriers in ZnO/In<sub>2</sub>O<sub>3</sub>/InSe: Cd heterojunctions  
*Revista: Thin Solid Films* **519 (21)** (2011) 7356–7359.
- 3. Autor(i):** **L. Leontie**, I. Evtodiev, V. Nedeff, M. Stamate, M. Caraman  
*Titlu:* Photoelectric properties of Bi<sub>2</sub>O<sub>3</sub>/GaSe heterojunctions  
*Revista: Applied Physics Letters* **94 (7)** (2009), 071903.
- 4. Autor(i):** I. Evtodiev, **L. Leontie**, M. Caraman, M. Stamate, E. Arama  
*Titlu:* Optical properties of p-GaSe single crystals doped with Te  
*Revista: Journal of Applied Physics* **105 (2)** (2009), 023524.
- 5. Autor(i):** **Liviu Leontie**, Mihail Caraman, Igor Evtodiev, Elmira Cuculescu, Ana Mija  
*Titlu:* Optical properties of bismuth oxide thin films prepared by reactive d.c. magnetron sputtering onto p-GaSe (Cu)  
*Revista: Physica Status Solidi (a)* **205 (8)** (2008), 2052–2056.
- 6. Autor(i):** **L. Leontie**, R. Danac  
*Titlu:* Optical properties of some new synthesized organic semiconductors in thin films  
*Revista: Scripta Materialia* **54 (2)** (2006), 175–179.
- 7. Autor(i):** **L. Leontie**, M. Caraman, A. Visinoiu, G. I. Rusu  
*Titlu:* On the optical properties of bismuth oxide thin films prepared by pulsed laser deposition  
*Revista: Thin Solid Films* **473 (2)** (2005), 230–235.
- 8. Autor(i):** **L. Leontie**, M. Caraman, M. Alexe, C. Harnagea  
*Titlu:* Structural and optical characteristics of bismuth oxide thin films  
*Revista: Surface Science* **507–510** (2002), 480–485.
- 9. Autor(i):** **L. Leontie**, M. Caraman, M. Delibas, G. I. Rusu  
*Titlu:* Optical Properties of Bismuth Trioxide Thin Films  
*Revista: Materials Research Bulletin* **36 (9)** (2001), 1629–1637.
- 10. Autor(i):** **L. Leontie**, M. Caraman, G. I. Rusu  
*Titlu:* On the Photoconductivity of Bi<sub>2</sub>O<sub>3</sub> in Thin Films  
*Revista: Journal of Optoelectronics and Advanced Materials* **2 (4)** (2000), 385–389.

## B. Teza de doctorat

### *Studiul mecanismelor de conducție electrică în straturi subțiri policristaline*

Universitatea "Alexandru Ioan Cuza" din Iași, 26 iunie, 1999; conducător științific: Prof. dr. G. I. Rusu.

Diploma Nr. 75/25.07.2000.

## C. Lista altor articole cotate în Thomson Reuters (fost ISI) Web of Knowledge

- 1. Autor(i):** V. Șunel, G. I. Rusu, G. G. Rusu, **L. Leontie**, C. Șoldea  
*Titlu:* Electrical characteristics of some derivatives of p-aminobenzoic acid in thin films  
*Revista: Progress in Organic Coatings* **26 (1)** (1995), 53–61.
- 2. Autor(i):** Mihaela Rusu, A. Airinei, **L. Leontie**, Diana Mardare, G. I. Rusu  
*Titlu:* On the Semiconducting Properties of Some Bisphenolic Chelate Polymers in Thin Films  
*Revista: Physics of Low-Dimensional Structures* **5 (6)** (1998), 31–42.
- 3. Autor(i):** G. I. Rusu, I. Căplănuș, **L. Leontie**, A. Airinei, E. Butuc, D. Mardare, I. I. Rusu  
*Titlu:* Studies on the Electronic Transport Properties of some Aromatic Polysulfones in Thin Films  
*Revista: Acta Materialia* **49 (3)** (2001), 553–559.
- 4. Autor(i):** **L. Leontie**, Mihaela Roman, I. Căplănuș, G. I. Rusu  
*Titlu:* On the electronic transport properties of some disubstituted carbanion pyridazinium ylids in thin films  
*Revista: Progress in Organic Coatings* **44 (4)** (2002), 287–293.
- 5. Autor(i):** Valentina Chiricenco, M. Caraman, I. I. Rusu, **L. Leontie**  
*Titlu:* On the luminescence of GaS(Cu) single crystals  
*Revista: Journal of Luminescence* **101 (1–2)** (2003), 71–77.
- 6. Autor(i):** **L. Leontie**, Ivona Olariu, G. I. Rusu  
*Titlu:* On the charge transport in some new carbanion disubstituted ylides in thin films  
*Revista: Materials Chemistry and Physics* **80 (2)** (2003), 506–511.
- 7. Autor(i):** **L. Leontie**, M. Roman, F. Brinza, C. Podaru, G. I. Rusu  
*Titlu:* Electrical and optical properties of some new synthesized ylides in thin films  
*Revista: Synthetic Metals* **138 (1–2)** (2003), 157–163.
- 8. Autor(i):** **L. Leontie**, I. Druta, R. Alupoae, G. I. Rusu  
*Titlu:* On the electronic transport in some new synthesized high resistivity organic semiconductors in thin films  
*Revista: Materials Science and Engineering B-Solid State Materials for Advanced Technology* **100 (3)** (2003), 252–258.
- 9. Autor(i):** **L. Leontie**, I. Druta, R. Danac, G. I. Rusu  
*Titlu:* On the electronic transport properties of pyrrolo[1,2-a][1,10]phenanthroline derivatives in thin films  
*Revista: Synthetic Metals* **155 (1)** (2005), 138–145.
- 10. Autor(i):** **L. Leontie**, I. Druta, R. Danac, M. Prelipceanu, G. I. Rusu  
*Titlu:* Electrical properties of some new high resistivity organic semiconductors in thin films  
*Revista: Progress in Organic Coatings* **54 (3)** (2005), 175–181.
- 11. Autor(i):** **L. Leontie**  
*Titlu:* Photoconductivity Characteristics of Bismuth Oxide in Thin Films

- Revista: Physics of Low-Dimensional Structures* **2** (2006), 23–28.
- 12. Autor(i):** I. Caraman, G. I. Rusu, **L. Leontie**  
*Titlu:* Photoelectrical and optical properties of  $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$  single crystals and thin films  
*Revista: Journal of Optoelectronics and Advanced Materials* **8 (1)** (2006), 107–111.
- 13. Autor(i):** E. Cuculescu, Ig. Evtodiev, M. Caraman, **L. Leontie**  
*Titlu:* Study of generation-recombination processes of non-equilibrium charge carriers in single crystalline thin GaSe(Cu) films  
*Revista: Journal of Optoelectronics and Advanced Materials* **8 (1)** (2006), 112–118.
- 14. Autor(i):** **L. Leontie**, I. Druta, R. Danac  
*Titlu:* Electrical conduction mechanism in N-(p-R-phenacyl)-4,5-diazafluorenium-9-one bromides thin films  
*Revista: Synthetic Metals* **156 (2–4)** (2006) 224–229.
- 15. Autor(i):** I. Caraman, G. I. Rusu, **L. Leontie**  
*Titlu:* Fundamental absorption edge in thin films of  $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$  solid solutions  
*Revista: Journal of Optoelectronics and Advanced Materials*, **8 (3)** (2006), 927–930.
- 16. Autor(i):** **L. Leontie**  
*Titlu:* Optical properties of bismuth oxide thin films prepared by reactive magnetron sputtering  
*Revista: Journal of Optoelectronics and Advanced Materials* **8 (3)** (2006), 1221–1224.
- 17. Autor(i):** **L. Leontie**, I. Druta, A. Rotaru, C. Podaru, G. I. Rusu  
*Titlu:* On the electronic transport properties of 4,4'-bipyridinium dibromides in thin films  
*Revista: Materials Chemistry and Physics* **97 (2–3)** (2006), 476–480.
- 18. Autor(i):** **L. Leontie**, G.I. Rusu  
*Titlu:* On the electronic transport properties of bismuth oxide thin films  
*Revista: Journal of Non-Crystalline Solids* **352 (9–20)** (2006), 1475–1478.
- 19. Autor(i):** I. Căplănuș, Mihaela Rusu, G.G. Rusu, **L. Leontie**  
*Titlu:* On the electronic transport properties of some thiosemicarbazide derivatives complexed with nickel cations  
*Revista: Materials Chemistry and Physics* **101 (1)** (2007) 77–80.
- 20. Autor(i):** **L. Leontie**, I. Druta, B. Furdui, G.I. Rusu  
*Titlu:* On the mechanism of electrical conduction in some new quaternary salts of bipyridine and indolizine pyridine in thin films  
*Revista: Progress in Organic Coatings* **58 (4)** (2007) 303–311.
- 21. Autor(i):** Gheorghe Rusu, Elena Rusu, **Liviu Leontie**, Gheorghe I. Rusu  
*Titlu:* Electrical DC Conduction Mechanism in Some Newly Synthesized Nylon 6/12 Copolymers  
*Revista: Journal of Polymer Science Part B: Polymer Physics* **45 (7)** (2007), 794–799.
- 22. Autor(i):** Marius Prelipceanu, Otilia-Sanda Prelipceanu, Ovidiu-Gelu Tudose, **Liviu Leontie**, Bernd Grimm, Sigurd Schrader  
*Titlu:* Study of thermal conversion and patterning of a new soluble poly (p-phenylenevinylene) (PPV) precursor  
*Revista: Materials Science in Semiconductor Processing* **10/2-3** (2007), 77-89.
- 23. Autor(i):** I. Caraman, G. I. Rusu, **L. Leontie**  
*Titlu:* The photoluminescence of CdTe thin films in  $\text{SnO}_2\text{-CdS/CdTe-Ni}$  solar cells thermally treated in  $\text{CdCl}_2$  solution  
*Revista: Journal of Optoelectronics and Advanced Materials* **9/5** (2007), 1546-1550.
- 24. Autor(i):** M. Prelipceanu, O.S. Prelipceanu, **L. Leontie**, R. Danac  
*Titlu:* Photoelectron spectroscopy investigations of pyrrolo[1,2-a][1,10]phenanthroline derivatives  
*Revista: Physics Letters A* **368 (3–4)** (2007) 331–335.

- 25. Autor(i): L. Leontie**, R. Danac, I. Druta, G. I. Rusu  
*Titlu:* Electronic transport properties of 1-(p-R-phenacyl)-4-{{(1'-ethylcarboxylate)-(3'-p-R'-phenacyl)}-7'-indoliziny]}pyridinium bromides in thin films  
*Revista: Thin Solid Films* **516 (7)** (2008), 1599–1603.
- 26. Autor(i): M. Caraman**, V. Chiricenco, **L. Leontie**, I. I. Rusu  
*Titlu:* Photoelectrical properties of layered GaS single crystals and related structures  
*Revista: Materials Research Bulletin* **43 (12)** (2008), 3195–3201.
- 27. Autor(i): L. Leontie**, I. Druta, Al. Rotaru, N. Apetroaei, G. I. Rusu  
*Titlu:* Electronic transport properties of some new monoquaternary salts of 4,4'-bipyridine in thin films  
*Revista: Synthetic Metals* **159 (7-8)** (2009), 642–648.
- 28. Autor(i): L. Leontie**, I. Druta, B. Furdui, V. Nica, and G. I. Rusu  
*Titlu:* Electrical d.c. conduction mechanism in some newly synthesized mono- and dipyridine quaternary salts in thin films  
*Revista: Synthetic Metals* **159 (17–18)** (2009), 1831–1836.
- 29. Autor(i): S. Condurache-Bota**, G. I. Rusu, N. Tigau, **L. Leontie**  
*Titlu:* Important physical parameters of Bi<sub>2</sub>O<sub>3</sub> thin films found by applying several models for optical data  
*Revista: Crystal Research and Technology* **45 (5)** (2010), 503-511.
- 30. Autor(i): L. Leontie**, R. Danac, I. Druta, A. Carlescu, G. I. Rusu  
*Titlu:* Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties  
*Revista: Synthetic Metals* **160 (11–12)** (2010), 1273–1279.
- 31. Autor(i): L. Leontie**, R. Danac, I. Druta, A. Carlescu, G. I. Rusu  
*Titlu:* Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films  
*Revista: Synthetic Metals* **160 (23–24)** (2010), 2526–2533.
- 32. Autor(i): L. Leontie**, R. Danac, N. Apetroaei, and G. I. Rusu  
*Titlu:* Study of electronic transport properties of some new N-(p-R-phenacyl)-1,7-phenanthroline bromides in thin films  
*Revista: Materials Chemistry and Physics* **127 (3)** (2011), 471–478.
- 33. Autor(i): M. Airimioaei**, C.E. Ciomaga, N. Apostolescu, **L. Leontie**, A.R. Iordan, L. Mitoseriu, M. N. Palamaru  
*Titlu:* Synthesis and functional properties of the, Ni<sub>1-x</sub>Mn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites  
*Revista: Journal of Alloys and Compounds* **509 (31)** (2011), 8065–8072.
- 34. Autor(i): Tamara Slatineanu**, Alexandra Raluca Iordan, Mircea Nicolae Palamaru, Ovidiu Florin Caltun, Vasilica Gafton, **Liviu Leontie**  
*Titlu:* Synthesis and characterization of nanocrystalline Zn ferrites substituted with Ni  
*Revista: Materials Research Bulletin* **46 (9)** (2011), 1455–1460.
- 35. Autor(i): Silvia Evtodiev**, Iulia Caraman, Liliana Dmitroglu, **L. Leontie**, V. Nedeff, A. Dafinei, G. Lazar, I. Evtodiev  
*Titlu:* Optical Properties of III–VI Lamellar Semiconductors Doped with Cu and Cd and of Related III–VI/Native Oxide Structures  
*Revista: Journal of Nanoelectronics and Optoelectronics* **6 (4)** (2011), 502–513.
- 36. Autor(i): Bostan, D.C.**, Timofte, A., **Leontie, L.**  
*Titlu:* Temperature-humidity index. Recent meteorological measurements in the Moldavia region  
*Revista: Journal of Environmental Protection and Ecology* **12 (3 A)** (2011), 1592–1597.
- 37. Autor(i): Bibire, L.**, Ghenadi, A.S., Timofte, A., **Leontie, L.**, Buzdugan, M., Agop  
*Titlu:* Possible influences of aerosols on the Schumann frequency spectrum

*Revista: Journal of Environmental Protection and Ecology* **12 (3 A)** (2011), 1288–1294.

**38. Autor(i):** R. Danac, **L. Leontie**, A. Carlescu, G. I. Rusu

*Titlu:* DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films

*Revista: Materials Chemistry and Physics* **134 (2–3)** (2012) 1042–1048.

**39. Autor(i):** **Liviu Leontie**, Ramona Danac, Mihaela Girtan, Aurelian Carlescu, Alicia Petronela Rambu, Gheorghe I. Rusu

*Titlu:* Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films

*Revista: Materials Chemistry and Physics* **135 (1)** (2012), 123–129.

#### **D. Lista lucrărilor publicate in extenso în proceedings-uri ale conferințelor**

**1. Autor(i): L. Leontie**

*Titlu:* On the electronic transport in polycrystalline bismuth oxide thin films

*Sursa: International Conference on Advanced Materials and Structures (AMS 2)*, 19–21 September 2002, Timisoara-Romania. Conference proceedings (ISBN: 973-8391-50-4), Sect. Materials, p. 213.

**2. Autor(i):** Elmira Cuculescu, P. Lozovanu, Ig. Evtodiev, **L. Leontie**, M. Caraman

*Titlu:* Some optical properties of fullerenes C<sub>60</sub> intercalated, GaSe single crystals

*Sursa: Proceedings Fifth General Conference of the Balkan Physical Union*, August 25–29, 2003, Vrnjacka Banja, Serbia and Montenegro, Sect. 6: Condensed Matter Physics, work SP06 – 037, 667–670.

18 iulie, 2012

Dr. Liviu Leontie