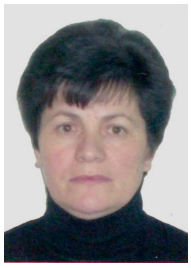
PERSONAL INFORMATION

Lidia Ghimpu



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Lidia.ghimpu@gmail.com, ghimpul@yahoo.com

Sex F | Date of birth 18/07/1961 | Nationality Republic of Moldova, Romania

WORK EXPERIENCE

2020- present

Director IEEN „D. Ghitu", Academy 3/3, str., Chișinău, https://www.nanotech.md

2010 – 2020

Deputy Director for Science, IIEN „D. Ghițu ", Chisinau,

2009-2010

Scientific researcher of "D.Ghitu" Insitute of Electronic Engineerig and NanotechnologiesIEN „D. Ghișu "of the Academy of Science of Moldova

1992-2008

▪ Scientific researcher of Laboratory of „Semiconductor Physics", State University of Moldova.

1978-1984

The "Mezon" plant in Chisinau, Republic of Moldova

EDUCATION AND TRAINING

2006

PhD in Physical-Mathematical Sciences, speciality 01.04.10 - Semiconductor Physics and Engineering

1994-2000

PhD study

1985-1990

Faculty of physics, State University of Moldova

1968-1978

The middle school in the village of Colonița, Chisinau municipality, Republic of Moldova

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
	Replace with name of language certificate. Enter level if known.				
Russian	C1	C1	C1	C1	C1
	Replace with name of language certificate. Enter level if known.				

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Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Organisational / managerial skills

- financial manager of the FP 7 project " MoldEra "Preparation of Moldova's integration into the European Research Area and into the Community R & D Framework Programme on the basis of Scientific Excellence" (2010-2013);
- Bilateral project manager Moldova-Italy " Development and morphology characterization of Nanocrystalline Thin Film coatings for fibre optics obtained by Magnetron Sputtering"
- Bilateral project manager Moldova-Romania "Nanocompozite materials based on semiconductor and polymer layers interpenetration to manufacture sensors and luminescent diodes" (2013-2014).
- Bilateral project manager Moldova - Belarus' Materials and nanoporous structures with variable porosity gradient for applications in optics and optoelectronics "(2010 - 2011);
- Participating in the project SCOPES "Development sun cells with high efficiency and stable over time based on CdTe" (2008);
- Participating in the project MRDA-CRDF,, Dezvoltatrea tenologiilor new solar cells to obtain CdS / CdTe "University of Colorado and the National Renewable Energy Laboratory (NREL) (2001-2003).

Digital skills

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

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Driving licence

Replace with driving licence category/-ies.
B

ADDITIONAL INFORMATION

Projects

- Director of the bilateral project Moldova-Italy " Development and morphology characterization of Nanocrystalline Thin Film coatings for fiber optics obtained by Magnetron Sputtering" (2015-2016)
- Director of the Moldova-Romania bilateral project "Nanocomposite materials based on semiconductor and polymer layers interpenetration to manufacture sensors and luminescent diodes" (2013-2014).
- Financial manager of the project within the FP7 MoldEra program "Preparation of Moldova's integration into the European Research Area and into the Community R&D Framework Program on the basis of Scientific Excellence" (2010-2013);
- Director of the bilateral project Moldova - Belarus "Materials and nanoporous structures with variable porosity gradient for applications in optics and optoelectronics" (2010 - 2011);
- Executor within the SCOPES project "Development of solar cells with high efficiency and stable over time based on CdTe" (2008);
- Executor within the MRDA-CRDF project, Development of technologies new solar cells to obtain CdS / CdTe "University of Colorado and the National Renewable Energy Laboratory (NREL) (2001-2003).
-

Publications

1. *JULIAN STROBEL, LIDIA GHIMPU, VASILE POSTICA, OLEG LUPAN, MAXIMILIAN ZAPF, SVEN SCHONHERR, ROBERT RODER, CARSTEN RONNING, FABIAN SCHUTT, YOGENDRA KUMAR MISHR, ION TIGYNEANU, RAINER AADELUNG, JANIK MARX, BODO FIEDLER, LORENZ KIENLEA.* Improving Gas Sensing by CdTe Decoration of Individual AerographiteMicrotubes. Nanotechnology, v.30, nr.6, February, 2019. IF=3,399
2. L.*GHIMPU, O. LUPAN, V.POSTICA, J. STROBEL, L.KIENLE, M. TERASA, M.MINKEN, I.TIGHINEANU, J.MARX, B.FEIDLER, R.ADELUNG.* Individual CdS-covered aerographite microtubes for temperature VOC sensing with high selectivity. *J.Material* Science in Semiconductor Processing 100 (2019), pp.275-282. IF=2,722
3. T. POTLOG, L. GHIMPU, V. SUMAN, A. GHIULNARE, M. ENACHESCU. Effect of RF Power and Thickness on Structural and Optical Properties of NiO Thin Films under Low Content of Oxygen and High Substrate Temperature. J. Materials Reasearch Express, 2019, IF = 1.449 .
4. PLESCO, M. DRAGOMAN, J. STROBEL, L. GHIMPU, F. SCHUTT, A. DINESCU, V. URSAKI, L. KIENLE, R. ADELUNG, I. TIGINYANU. Flexible pressure sensor based on graphene aerogel functionalized with CdS nanocrystalline thin film. Superlattices and Microstructures. Volume 117, May 2018, Pages 418-422.
5. L.GHIMPU, V.URSAKI, A.PANTAZI, R.MESTERCA, O.BRANCOVEANU, S. SHREE, R.ADELUNG, I.TIGINYANU, M.ENACHESCU. *Characterization of core/shell structures based on CdTe and GaAs nanocrystalline layers deposited on SnO_2 microwires. Superlattices and Microstructures, Vol. 116, aprl.2018, pp.64-70.*
6. *LIDIA GHIIMPU. Metal oxide sensors: Development and characterization. Moldavian Journal of the Physical Science, No.1, 2018. Pp.185-201.*
7. I.PLESCO, V.POSTOLACHE, G.VOLODINA, V.ZALAMAI, L.GHIMPU, I.TIGINYANU. Synthesis and characterization of photosensible $CH_3NH_3PbI_3$ and $CH_3NH_3PbI_{3-x}Cl_x$perovskite crystalline films. Surface Engineering and Applied Electrochemistry, Springer, 2017, v.53(1), pp. 15-19.
8. LIDIA GHIMPU. Development and morphology characterization of Nanocrystalline Thin Film coatings for fiber optics. Moldavian Journal of Physics Scince, 2017, V…., pp. L. GHIMPU. Noi nanomaterilae electronice multifunctionale. Academos, nr.2., v.45, 2017, pp. 43-47.
9. D. Z. GRABKO, K. M. PYRTSAK, L. Z. GHIMPU. Mechanical properties of the coating/substrate composite system: Nanostructured copper films on a LiF substrate. Surface Engineering and Applied Electrochemistry. Volume 52, Issue 4, July 2016, pp. 319-333
10. I. TIGINYANU, L. GHIMPU, J. GROTTRUP, V. POSTOLACHE, M. MECKLENBURG, M. A. STEVENS-KALCEFF, V. URSAKI, N. PAYAMI, R. FEIDENHASL, K. SCHULTE, R. ADELUNG & Y. K. MISHRA. Strong light scattering and broadband (UV to IR) photoabsorption in stretchable 3D hybrid architectures based on Aerographite decorated by ZnO nanocrystallites. Journal Advanced Optical Materials A Nature research Jurnal Scientific Reports| 6:32913 | DOI: 10.1038/srep32913.
11. M. DRAGOMAN, L. GHIMPU, C. OBREJA, A. DINESCU, I. PLESCO, D. DRAGOMAN, T. BRANISTE and I. TIGINYANU. Ultra-lightweight pressure sensor based on graphene aerogel decorated with piezoelectric nanocrystalline films. Nanotechnology 27 (2016) 475203, doi:10.1088/0957-4484/27/47/475203
12. ELENA PERJU, LIDIA GHIMPU, GABRIELA HITRUC, VALERIA HARABAGIU, MARIA BRUMA, LUMINITA MARIN. Inorganic/organic hybrid material based on mesomorphic polyazometine. High Performance Polymers 2015, Vol. 27(5) 546–554. IF=1,286
13. L.GHIMPU, T. POTLOG, ANA-MARIA RESMERITA, I. TIGINYANU, A. FARCAS. Structure and morphology of nanoporous ZnO and dark current-voltage characteristics of the glass/(TCO)/ZnO/poly[2,7-(9,9-dioctylfluorene)- alt-(5,5'-bithiophene)/Ag structure. Journal Applied Polymers Science. Volume 132, Issue 33,September 5, 2015, DOI: 10.1002/app.42415.
14. O. LUPAN, L. GHIMPU, T. BRANISTE, V. CRETU, MAO DENG, INGO PAULOWICZ, ARNIM SCHUCHARDT, LEONARD SIEBERT, DAWIT GEDAMU, YOGENDRA K. MISHRA, LORENZ KIENLE, RAINER ADELUNG, I.TIGINYANU. Hybrid core-shell SnO2/GaN@Ga2O3 nanoheterostructures for photodetectors. Raport la SPIE MicroTechnologies International Conference 2015, Barcelona, Spain, 4 - 6 May 2015

Courses

Nanomaterials (Bachelor's degree, 3rd year),
Nanocomposites (master's degree, 1st year)