

# Europass **Curriculum Vitae**



### Personal information

Name / surname

Ioana-Laura VELICU

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Nationality

Romanian

# **Professional experience**

#### **TEACHING EXPERIENCE**

Dates

2018 - present

Occupation or position held

Lecturer

Main activities and responsibilities

- Classical Mechanics (course, seminar, laboratory);
- Mathematical Models in Science (course, seminar);
- Molecular Physics and Heat (seminar, laboratory);
- Practical Work: First-year undergraduate students;

First-year M.S. students (Advanced Materials. Nanotechnologies).

Name and address of employer

Type of business or sector

February 2022 - July 2022

**Higher Education** 

Occupation or position held

Teacher / Higher Level Teaching Assistant / Teaching Assistant

Main activities and responsibilities

- Lesson planning, teaching primary-age children, working 1:1 with small groups of students diagnosed with a variety of different educational support needs;

"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania

Name and address of employer

Primary and secondary mainstream / SEN schools in NW London, UK

Type of business or sector

Education

Dates

Dates

01.11.2019 - 30.06.2020

Occupation or position held

*Tutor* in the project "Development of the academic and psycho-social skills of the students of the Faculty of Physics to combat the school dropout EVRIKA!"

Main activities and responsibilities

Facilitating the understanding of the contents and basic terminology necessary for the study of elementary physics courses related to the first year of undergraduate studies; Improving the academic performance of students on the target group;

Contributing through tutorial activities to improving students' communication skills.

"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania

Name and address of employer

Type of business or sector

**Higher Education** 

Dates

2015 - 2018

Occupation or position held

**Assistant Professor** 

Main activities and responsibilities

- Physics Problems-Solving (course, seminar);
- Molecular Physics and Heat (seminar, laboratory);
- Classical Mechanics (seminar);
- Mathematical Models in Science (seminar);
- Practical Work: First-year undergraduate students;

First-year M.S. students (Advanced materials. Nanotechnologies).

Name and address of employer

"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania

Type of business or sector

Higher Education

Dates

01.10.2012 - 01.02.2015

Occupation or position held

#### **Associated Assistant Professor**

Main activities and responsibilities

- Chaos and self-organization (course, seminar);
- Molecular Physics and Heat (laboratory);
- Practical Work: First-year M.S. students (Environmental Physics and Protection).

Name and address of employer

"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania

Type of business or sector

**Higher Education** 

Dates

### 01.10.2010 - 01.02.2012

Occupation or position held

# Substitute Assistant Professor

Main activities and responsibilities

General Physics (course, seminar, laboratory).

Name and address of employer "

"Gheorghe Asachi" Technical University, 67 Dimitrie Mangeron Blvd., 700050, Iasi, Romania

Type of business or sector

**Higher Education** 

#### **MANAGEMENT EXPERIENCE**

Dates

## **April 2021 – February 2022**

Occupation or position held

**Programme Manager** of a **£4.5** million (5,3 mil €) grant (**Grant Title**: UKRI Interdisciplinary Centre for CircularMetal – led by Brunel University London, with partners University of Warwick, University College London, and Loughborough University). The centre is dedicated to exploring how the reuse of metals can benefit the environment and the British economy, and will aim to develop an understanding of how the country can best shift towards a carbon-neutral, circular economy by 2050.

Main activities and responsibilities

Establish resourcing requirements for the overall programme and individual projects / Develop appropriate procedures to monitor, control and report on all aspects of the Research Programme and associated research activities / Contribute to development of project plans / Clarify the scope and definition of the Programme / Assist in the development of plans to achieve the Programme goals / Develop and manage procedures for collecting and reporting relevant statistics.

Name and address of employer

Brunel University London, Uxbridge, UB83PH, UK

Type of business or sector

Research

Dates

# March - October 2019

Occupation or position held

Trained by Word Bank experts (during Research Valorization Program) on Technology Transfer Office (TTO) management, principles of research and technology commercialization, and tools for intellectual property rights (IPR) protection. *Supporting Innovation in Romanian Catching up Regions Project* assisted by **The World Bank (WB)** and **DG REGIO of the European Commission** 

Name and address of employer

"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania

Type of business or sector

Research

	RESEARCH EXPERIENCE – scientific grants and fellowships (principal investigator)					
Dates	December 2015 – November 2016					
Occupation or position held	<b>Project manager</b> , Optimizing the HiPIMS configuration to improve the deposition process and to obtain thin films with advanced properties, Grant GI-2015-07 (20 000 RON).					
Main activities and responsibilities	– Thin films deposition and characterization, plasma diagnosis.					
Name and address of employer	"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania					
Type of business or sector	Research					
Dates	October 2010 – September 2013					
Occupation or position held	Contributions regarding the obtaining and characterization of FeCuNbSiB amorphous and					
occupation of position netu	nanocrystalline thin films (Doctoral fellowship), POSDRU/CPP 107/DMI 1.5/S/78342 (72 000 RON)					
Name and address of employer	"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania					
Type of business or sector	Research					
	RESEARCH EXPERIENCE – scientific grants (member)					
Dates	September 2020 – September 2022					
Occupation or position held	<b>Researcher</b> , PN-III-P1-1.1-TE-2019-1209, TE 59/31.08.2020 (431 989 RON)					
Main activities and responsibilities	– Thin films deposition and characterization, processing and interpretation of experimental					
	data, writing scientific papers and reports.					
Name and address of employer	Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University, 500068 Brasov, Romania					
Type of business or sector	Research					
Dates	July 2018 – September 2020					
Occupation or position held	Senior Researcher, Romanian participation at EUROfusion program WPPFC and					
	complementary research, PFC-RO, PNCDI III / 1EU-1/2 / 01.07.2016.					
Main activities and responsibilities	<ul> <li>Thin films deposition and characterization for WPPFC project (work package "Plasma- Facing Components").</li> </ul>					
Name and address of employer	"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania					
Type of business or sector	Research					
Dates	October 2014 – December 2016					
Occupation or position held	<b>Assistant Researcher,</b> Process and device for thin films deposition in highly ionized pulsed plasma, Grant PN-II-PT-PCCA-2011-3.2-1340.					
Main activities and responsibilities	Experimental devices designing, diagnosis of plasma subjected to an additional magnetic field, thin films deposition and characterization, processing and interpretation of experimental data, writing scientific papers and reports.					
Name and address of employer	"Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., 700506, Iasi, Romania					
Type of business or sector	Research					
Dates	October 2010 – April 2011					
Occupation or position held	Trainee Research Assistant					
Main activities and responsibilities	<ul> <li>Magnetic thin films deposition using various deposition techniques – Radio Frequency</li> <li>Magnetron Sputtering, Electron Beam Evaporation, etc.</li> <li>Thin films characterization – surface and bulk magnetic behaviour.</li> </ul>					
Name and address of employer	National Institute of Research & Development for Technical Physics – IFT Iasi, 47 Mangeron Blvd., 700050, Iasi, Romania					
Type of business or sector	Research					
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# **Education and training**

**Dates** 

November 2012 - July 2013

Title of qualification awarded

Graduation certificates for successful completion of the psycho-pedagogical module (postgraduate, level I and level II)

Name and type of organization providing education and training "Alexandru Ioan Cuza" University of Iasi, Teacher Training Department

Dates

01.10.2010 - 27.09.2013

Title of qualification awarded

Ph.D. in Exact Sciences - Physics, with EXCELLENT (SUMMA CUM LAUDE), awarded with DOC-Paideia Prize of Excellence.

Principal subjects/occupational skills covered

Ph.D. thesis: Contributions regarding the obtaining and characterization of FeCuNbSiB amorphous and nanocrystalline thin films

Name and type of organization providing education and training Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi, Romania

Dates

2008 - 2010

Title of qualification awarded

M.Sc., Physics (Plasma Physics, Self-organization and Spectroscopy)

Principal subjects/occupational skills covered

Dissertation thesis: Amorphous soft magnetic thin films: obtaining and characterization

Name and type of organization providing education and training Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi, Romania

**Dates** 

2004 - 2008

Title of qualification awarded

B.Sc., Physics (Computational Physics)

Principal subjects/occupational skills covered

License thesis: Magneto-optical Kerr effect. The study of surface magnetization of soft magnetic thin films

Name and type of organization providing education and training Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi, Romania

**Dates** 

2000 - 2004

Title of qualification awarded

Baccalaureate Diploma

Principal subjects/occupational skills covered

**Natural Sciences** 

Name and type of organization providing education and training

"Ovidius" Theoretical High school, Constanta

# Personal skills and competences

Other language(s)

Self-assessment

European level (\*)

**English** 

**French** 

Understanding			Speaking				Writing		
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	В2	Independent user	В2	Independent user	В2	Independent user	В2	Independent user

<sup>(\*)</sup> Common European Framework of Reference for Languages

Social skills and competences

Good communication, fast adaptation in new environments, team spirit.

# Organizational skills and competences

I took an active part in the organization of several international conferences and Autumn schools (member of the local organizing committee):

- 10<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-10, September 22-28 2014, Iasi, Romania;
- 1<sup>st</sup> Autumn School on Physics of Advanced Materials PAMS-1, September 22-28 2014, Iasi, Romania;
- 11<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM11, 8-14 September 2016, Cluj-Napoca, Romania;
- 2<sup>nd</sup> Autumn School on Physics of Advanced Materials, 8-14 September 2016, Cluj-Napoca;
- 11<sup>th</sup> International Conference on Materials Science and Engineering BRAMAT 2019, 13-16 March 2019, Brasov, Romania;
- The XVIII<sup>th</sup> International Conference on Plasma Physics and Applications CPPA 2019, 20-22 June 2019, lasi, Romania;

I took an active part in the organization of several events:

- Doors Open Days;
- Earth Day;
- various promotional activities of the Faculty of Physics;
- practical work sessions for the first-year M.S. students.

# Technical skills and competences

#### Well skilled in:

- deposition of amorphous and nanocrystalline thin films from a wide range of materials using various deposition techniques (RF Magnetron Sputtering, DC Magnetron Sputtering, High Power Impulse Magnetron Sputtering);
- measurements for the study of: structural (X-ray diffraction), topological (Atomic Force Microscopy), magnetic (Vibrating Sample Magnetometry and Magnetooptical Kerr Effect), mechanical (nanoindentation) and tribological (nanoscratch) properties of thin films, as well as for the study of magnetoimpedance effect;
- optical, electrical and spectral plasma diagnosis;
- design and building of measuring devices for the study of magneto-optical Kerr and magnetostriction effects.

# Computer skills and competences

- O.S.: Windows and Linux;
- Microsoft Office;
- Adobe (Acrobat, InDesign, Photoshop);
- Corel Paint Shop Pro and Corel Draw;
- Origin, Gwyddion, LabVIEW;
- Computer Networks.

#### **Patent**

- "Installation and Process for the Synthesis of Thin Layers in Pulsed Magnetron Discharge with High Degree of Ionization", V. Tiron, I.-L. Velicu, I. Mihăilă, M. Udrea, G. Popa, Patent Number: RO132311-A2, patent registered to OSIM, Patent RO132311-A2, 2017 (national).
- "Installation and process for energetic metal ion beam with application in space propulsion", V. Tiron, I.-L. Velicu, G. Popa, patent registered to OSIM, Patent: A/00304/2018 (national).

#### **Awards**

- Mention A.I. Bulai, I.L. Velicu, M. Neagu, V. Pohoata, B. Munteanu, Magneto-optical System for Kerr Rotation Measurement, a XXXIX-a Conferință Națională Fizica și Tehnologiile Educaționale Moderne, 2010, Iași, România.
- Second prize I.L. Velicu, M. Dobromir, M. Neagu, H. Chiriac, D. Luca, N. Lupu, V. Pohoaţă, B. Munteanu, FeCuNbSiB Thin Films Deposited by RF Magnetron Sputtering, a XL-a Conferinta Națională Fizica și Tehnologiile Educaționale Moderne, 12-14 mai 2011, Iași, România.
- Prize offered by the Royal Society of Chemistry (U.K.) for the best poster presentation and
- Honourable Mention offered by the organization committee for:
  - M. Dobromir, L. I. Velicu, M. Neagu, H. Chiriac, FeCuNbSiB Thin Films Deposited by Pulsed Laser Deposition: Structural and Magnetic Properties, Nanomaterials: Application & Properties, 16-21 septembrie 2013. Alushta, Ukraine.
- DOC-Paideia Prize of Excellence for my Ph.D. thesis entitled: Contributions regarding the obtaining and characterization of FeCuNbSiB amorphous and nanocrystalline thin films.
- Sponsor's Prize for the most original contribution presented by a young scientist for Nanomechanical characterization of amorphous and nanocrystalline FeCuNbSiB thin films, Ioana-Laura Velicu, Maria Neagu, Lucian Costinescu, Vasile Tiron, Daniel Munteanu, The 10th International Conference on Physics of Advanced Materials - ICPAM-10, September 22-28 2014, Iasi, Romania.
- Second Prize Winner (Best Paper Competition) Copper thin films deposited under different power deliver modes and magnetron configurations: A comparative study, loana-Laura Velicu, Vasile Tiron, Bogdan-George Rusu, Gheorghe Popa, The 7th International Conference on Fundamentals and Industrial Applications of HIPIMS, June 27-30, 2016, Sheffield, U.K.
- Third Prize Winner (Best Paper Competition) Bipolar High Power Impulse Magnetron Sputtering: A new approach to control the metal ion flux, I.-l. Velicu, C. Porosnicu, I. Mihăilă, I. Burducea, A. Velea, D. Cristea, D. Munteanu, V. Tiron, The 9th International Conference on Fundamentals and Industrial Applications of HIPIMS, 25-28 June 2018, Sheffield, UK.
- Research Excellence Award to recognize the results obtained in 2017, offered by "Alexandru Ioan Cuza" University of Iasi, Romania.
- 10. Special mention at the 5th Edition of Young Researchers in Science and Engineering Competition, founded by Professor Rada Mihalcea, Cluj-Napoca, 2019.
- 11. Gold Medal and Diploma of Honour for the patent entitled "Installation and process for energetic metal ion beam with application in space propulsion", The XXIII<sup>rd</sup> International Exhibition of Inventics, INVENTICA 2019.
- 12. Research Excellence Award to recognize the results obtained in 2018, offered by "Alexandru Ioan Cuza" University of Iasi, Romania.

# Others activities

**BA-Thesis Coordinator** 

Elements illustrating the

visibility of the scientific activity

- Reviewer @: IEEE Transactions on Magnetics (2008), Surface & Coatings Technology (2017, 2018, 2019), Thin Solid Films (2018), Applied Surface Science (2019);
- Associate Editor at Journal of Advanced Research in Physics;
- Member in the:
  - Council of the Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi (2011-2013);
  - Council for Doctoral Studies, "Alexandru Ioan Cuza" University of Iasi (2012-
  - Romanian Physical Society (secretary of the NE Branch);
  - EUROfusion (WP PFC);
  - IPARC Iasi Plasma Advanced Research Centre:
- 5 (2019-2020);
- co-author of 42 ISI-WOS papers (23 as first/corresponding author) in peer-reviewed journals (ORCID ID: 0000-0002-7236-2495); 57 presentations at international (45) and national (12) conferences; 12-times awarded; co-author of 2 national patents; member of 2 national grants; manager of a grant for young researchers; Hirsch Index: 16 (Google Scholar), >350 citations in ISI journals without self-citations.

List of papers and conferences I participated to.

Annexes

# A. Chapters in International Books:

1. Velicu I.-L., Tiron V., Mihaila I., Costin C. (2018) Pulsed Magnetron Sputtering: The Role of the Applied Power on W Coatings Properties. In: Luca D., Sirghi L., Costin C. (eds) Recent Advances in Technology Research and Education. INTER-ACADEMIA 2017. Advances in Intelligent Systems and Computing, vol 660. Springer, Cham.

### A. Papers published in ISI-quoted journals with impact factor (IF):

- 1. D. Cristea, C. Croitoru, A. Marin, M. Dobromir, E. L. Ursu, I.-L- Velicu, V. Tiron, V. Crăciun, L. Cunha, *On the Chemistry, Photocatalytical, and Corrosion Behavior of Co-Sputtered Tantalum and Titanium Oxynitride Thin Films*, Applied Surface Science 592 (2022) 153260, https://doi.org/10.1016/j.apsusc.2022.153260.
- V. Tiron, E.L. Ursu, D. Cristea, G. Bulai, G. Stoian, T. Matei, I.-L. Velicu (corresponding author), Room Temperature Deposition of Nanocrystalline SiC Thin Films by DCMS/HiPIMS Co-Sputtering Technique, Nanomaterials 12 (2022) 512, https://doi.org/10.3390/nano12030512.
- 3. V. Tiron, M.A. Ciolan, G. Bulai, D. Cristea, I.-L. Velicu (corresponding author), Effect of Pulsing Configuration and Magnetic Balance Degree on Mechanical Properties of CrN Coatings Deposited by Bipolar-HiPIMS onto Floating Substrate, Coatings 11 (2021) 1526, https://doi.org/10.3390/coatings11121526.
- **4.** D. Cristea, I.-L. Velicu (corresponding author), L. Cunha, N. Barradas, E. Alves, V. Craciun, *Tantalum-Titanium Oxynitride Thin Films Deposited by DC Reactive Magnetron Co-Sputtering: Mechanical, Optical, and Electrical Characterization*, Coatings **12** (**2021**) 36, https://doi.org/10.3390/coatings12010036
- 5. V. Tiron, G. Bulai, C. Costin, I.-L. Velicu, P. Dincă, D. Iancu, I. Burducea, *Growth and characterization of W thin films with controlled Ne and Ar contents deposited by bipolar HiPIMS*, Nuclear Materials and Energy 29 (2021) 101091, https://doi.org/10.1016/j.nme.2021.101091
- **6.** B. Tiss, M. Benfraj, N. Bouguila, M. Kraini, S. Alaya, D. Cristea, C. Croitoru, V. Craciun, D. Craciun, P. Prepelita, I.-L. Velicu, V. Tiron, C. Moura, L. Cunha, *The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of In2S3:Ag thin films produced by spray pyrolysis*, Materials Chemistry and Physics **270** (**2021**) 124838, https://doi.org/10.1016/j.matchemphys.2021.124838
- 7. I.-L. Velicu, V. Tiron M.-A. Petrea, G. Popa, New Concept of Metal Ion Thruster Based on Pulsed Thermionic Vacuum Arc Discharge, Plasma Sources Science and Technology 30 (2021) 015006.
- **8.** V. Tiron, **I.-L. Velicu** (corresponding author), D. Cristea, T. Matei, L. Cunha, *Ultra-short pulse HiPIMS: a strategy to suppress arching during reactive deposition*, Coatings (open access) **10(7) 633 (2020)** https://doi.org/10.3390/coatings10070633.
- **9.** V. Tiron, **I.-L. Velicu** (corresponding author), Understanding the ion acceleration mechanism in bipolar HiPIMS: the role of the double layer structure developed in the after-glow plasma, Plasma Sources Science and Technology **29** (**2020**) 015003 DOI: 10.1088/1361-6595/ab6156.
- 10. V. Tiron, E.-L. Ursu, D. Cristea, D. Munteanu, G. Bulai, A. Ceban, I.-L.Velicu (corresponding author), Overcoming the insulating materials limitation in HiPIMS: Ion-assisted deposition of DLC coatings using bipolar HiPIMS, Applied Surface Science 494 (2019) 871-879.
- 11. C. Gabor, D. Cristea, I.-L. Velicu, T. Bedo, A. Gatto, E. Bassoli, B. Varga, M. A. Pop, V. Geanta, R. Stefanoiu, M. M. Codescu, E. Manta, D. Patroi, M. Florescu, S. I. Munteanu, I. Ghiuta, N. Lupu, D. Munteanu, *Ti-Zr-Si-Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structural Development, Thermal Stability, Corrosion and Mechanical Properties*, Materials (open access) 12(9) 1551 (2019) https://doi.org/10.3390/ma12091551.
- **12.** T. Bedo, B. Varga, D. Cristea, A. Nitoi, A. Gatto, E. Bassoli, G. Bulai, I.-L. Velicu, I. Ghiuta, S. Munteanu, A. M. Pop, C. Gabor, M. Cosnita, L. Parv, D. Munteanu, *Metastable Al-Si-Ni alloys for additive manufacturing: structural stability and energy release during heating*, Metals (open access) **9(5) 483** (**2019**) https://doi.org/10.3390/met9050483.
- **13.** D. Cristea, L. Cunha, C. Gabor, I. Ghiuta, C. Croitoru, A. Marin, I.-L. Velicu, A. Besleaga, V. Bogdan, *Tantalum oxynitride thin films: assessment on the photocatalytic efficiency and antimicrobial capacity*, Nanomaterials (open access) **9(3) 476** (**2019**) https://doi.org/10.3390/nano9030476.
- **14.** V. Tiron, C. Porosnicu, P. Dinca, I.-L. Velicu (corresponding author), D. Cristea, D. Munteanu, Á. Révész, G. Stoian, C. P. Lungu, Beryllium thin films deposited by thermionic vacuum arc for nuclear applications, Applied Surface Science **481** (**2019**) 327-336.
- **15.** P. Dinca, V. Tiron, I.-L. Velicu, C. Porosnicu, B. Butoi, A. Velea, E. Grigore, C. Costin, C.P. Lungu, *Negative ion-induced deuterium retention in mixed W-Al layers codeposited in dual-HiPIMS*, Surface & Coatings Technology **363 (2019)** 273-281.

- 16. I.-L. Velicu, G.-T. Ianoş, C. Porosnicu, I. Mihăilă, Ion Burducea, Alin Velea, Daniel Cristea, Daniel Munteanu, Vasile Tiron, Energy-Enhanced Deposition of Copper Thin Films by Bipolar High Power Impulse Magnetron Sputtering, Surface & Coatings Technology 359 (2019) 97-107.
- 17. V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita, R. Schrittwieser, Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode, Plasma Sources Science and Technology 27 (2018) 085005.
- 18. V. Tiron, I.-L. Velicu (corresponding author), I. Pana, D. Cristea, B.G. Rusu, P. Dinca, C. Porosnicu, E. Grigore, D. Munteanu, S. Tascu, HiPIMS deposition of silicon nitride for solar cell application, Surface & Coatings Technology 344 (2018) 197-203.
- 19. V. Tiron, I.-L. Velicu (corresponding author), I. Mihăilă, G. Popa, Deposition rate enhancement in HiPIMS through the control of magnetic field and pulse configuration, Surface & Coatings Technology 337 (2018) 484-491.
- 20. V. Tiron, I.-L. Velicu (corresponding author), D. Cristea, N. Lupu, G. Stoian, D. Munteanu, Influence of ion-to-neutral flux ratio on the mechanical and tribological properties of TiN coatings deposited by HiPIMS, Surface & Coatings Technology 352 (2018) 690-698.
- 21. S. Brezinsek, J.W. Coenen, T. Schwarz-Selinger, K. Schmid, A. Kirschner et al. (168 authors), Plasma-Wall Interaction Studies within the EUROfusion Consortium: progress on Plasma-Facing Components development and qualification, Nuclear Fusion (open access) 57 (2017) 116041.
- 22. P. Dinca, C. Porosnicu, B. Butoi, I. Jepu, V. Tiron, O. G. Pompilian, I. Burducea, C. P. Lungu, I.-L. Velicu, Beryllium-Tungsten Study on Mixed Layers obtained by m-HiPIMS / DCMS Techniques in a Deuterium and Nitrogen Reactive Gas Mixture, Surface & Coatings Technology 321 (2017) 397-402.
- 23. V. Tiron, I.-L. Velicu, C. Porosnicu, I. Burducea, P. Dinca, P. Malinsky, Tungsten Nitride Coatings Obtained by HiPIMS as Plasma Facing Materials for Fusion Applications, Applied Surface Science 416 (2017) 878-884.
- 24. I.-L. Velicu, V. Tiron, C. Porosnicu, I. Burducea, N. Lupu, G. Stoian, G. Popa, D. Munteanu, Enhanced properties of Tungsten thin films deposited with a novel HiPIMS approach, Applied Surface Science 424 (2017) 397-406.
- 25. V. Tiron, I.-L. Velicu, D. Stanescu, H. Magnan, L. Sirghi, High Visible Light Photocatalytic Activity of Nitrogen-Doped ZnO Thin Films Deposited by HiPIMS, Surface & Coatings Technology 324 (2017) 594-600.
- 26. I.-L. Velicu, V. Tiron, B.-G. Rusu, G. Popa, Copper thin films deposited under different power delivery modes and magnetron configurations: A comparative study, Surface & Coatings Technology 327 (2017) 192-199.
- 27.1.-L. Velicu, I. Mihaila, G. Popa, Operating the HIPIMS discharge with ultra-short pulses: a solution to overcome the deposition rate limitation, Romanian Reports in Physics 69 (2017).
- 28. V. Tiron, I.-L. Velicu, M. Dobromir, A. Demeter, F. Samoila, C. Ursu, L. Sirghi, Reactive multi-pulse HiPIMS deposition of oxygendeficient TiO<sub>x</sub> thin films, Thin Solid Films **603** (**2016**) 255-261.
- 29. V. Tiron, I.-L. Velicu (corresponding author), O. Vasilovici, G. Popa, Optimization of deposition rate in HiPIMS by controlling the peak target current, Journal of Physics D: Applied Physics 48 (2015) 495204.
- **30.** L. Budeanu, M. Neagu, N. Lupu, H. Chiriac, I.-L. Velicu,  $Fe_{73.5}Cu_1Nb_3Si_{15.5}B_7$  powders prepared by mechanical grinding: structural and magnetic properties, Optoelectronics and Advanced Materials - Rapid Communications 9 (2015) 1164-1166.
- 31.I.-L. Velicu, M. Neagu, L. Costinescu, V. Tiron, D. Munteanu, Nanomechanical characterization of amorphous and nanocrystalline FeCuNbSiB thin films, Applied Surface Science 352 (2015) 5-9.
- 32. V. Tiron, I.-L. Velicu, F. Ghiorghiu, G. Popa, The effect of the additional magnetic field and gas pressure on the sheath region of a high power impulse magnetron sputtering discharge, Romanian Reports in Physics 67 (2015) 1004-1017.
- 33.L. Costinescu, C. Cojocariu, M. Dudita, L. Parv, I.-L. Velicu, D. Munteanu, The effect of Si incorporation on the mechanical properties and corrosion behaviour of a-C:H and a-C:H:Si coatings, Journal of Optoelectronics and Advanced Materials 17 (**2015**) 241-247.
- **34. I.-L. Velicu**, M. Neagu, V. Tiron,  $Fe_{73.5}Cu_1Nb_3Si_{15.5}B_7$  Thin Films Deposited by HiPIMS: Magnetic and Magnetostrictive Behaviour, Journal of Superconductivity and Novel Magnetism 28 (2015) 1035-1039.
- 35.1.-L. Velicu, V. Tiron, On the transport phenomena in highly ionized pulsed plasma during FeCuNbSiB thin film deposition process, Digest of Nanomaterials and Biostructures 9 (2014) 1513-1522.
- 36. I.-L. Velicu, V. Tiron, G. Popa, Dynamics of the fast HiPIMS discharge during FINEMET type films deposition, Surface & Coatings Technology, 250 (2014) 57-64.
- 37. I.-L. Velicu, M. Neagu, L. Costinescu, D. Munteanu, E. P. Koumoulos, C. A. Charitidis, Nanomechanical Properties of amorphous FeCuNbSiB Thin Films Deposited by HiPIMS, Sensors Letters 11 (2013) 1925-1930.
- 38. I.-L. Velicu, M. Kowalczyk, M. Neagu, V. Tiron, H. Chiriac, J. Ferenc, FINEMET-type thin films deposited by HiPIMS: influence of growth and annealing conditions on the magnetic behaviour, Materials Science & Engineering B 178 (2013) 1329-1333.

- **39. I.-L. Velicu**, M. Neagu, M. Dobromir, D. Luca, N. Lupu, H. Chiriac, F. Borza, *Structural, Magnetic and Magnetoelastic Behaviour of FeCuNbSiB Thin Films*, Sensor Letters **10** (**2012**) 902-905.
- **40. I.-L. Velicu**, M. Neagu, H. Chiriac, V. Tiron, M. Dobromir, *Structural and Magnetic Properties of FeCuNbSiB Thin Films Deposited by HiPIMS*, IEEE Transactions on Magnetics **48** (**2012**) 1336-1339.
- **41.** M. Dobromir, M. Neagu, H. Chiriac, C. Agheorghiesei, A. Bulai, I.-L. Velicu, F. Borza, *Ellipsometric investigation of Fe-based amorphous thin films*, Optoelectronics and Advanced Materials Rapid Communications **4 (2010)** 1667-1669.
- **42.** M. Neagu, M. Lozovan, M. Dobromir, I.-L. Velicu, C. Hison, S. Stratulat, *Permalloy Thin Films Obtained by Pulsed Laser Deposition: Magnetic and Galvanomagnetic Behaviour*, Journal of Optoelectronics and Advanced Materials **10** (**2008**) 632-634.

#### **B. BDI Papers:**

**1**. D. Mihăilescu, C. Munteanu, C. Aniculăesei, **I.-L. Velicu**, *Backscattering Coefficients For 8-32 KeV Electrons: A Monte Carlo Investigation*, Annals of West University, Timisoara, Physics Series **25** (2008).

# C. Papers published in extenso in volumes of international scientific manifestations:

- **1**. M. Dobromir, **I.-L.Velicu**, M. Neagu, H. Chiriac, *FeCuNbSiB Thin Films Deposited by Pulsed Laser Deposition: Structural and Magnetic Properties*, Proceedings of International Conference Nanomaterials: Application & Properties **2** (2013) 01NTF09(3).
- **2.** V. Tiron, C. Vitelaru, **I.-L.Velicu**, F. Ghiorghiu, G. Popa, *On transport phenomena in high power pulse unbalanced magnetron discharge with additional external magnetic field*, Proceedings of The XXXI International Conference on Phenomena in Ionized Gases ICPIG (2013).

#### D. B+ Papers:

**1.** I.-L. Velicu (corresponding author), M. Neagu, V. Tiron, Magnetoimpedance effect in single-layered and sandwiched FeCuNbSiB thin films in frequencies up to 500 MHz, Journal of Advanced Research in Physics **7(1)** (2017) 011701.

# E. Participation in national conferences:

- 1. M.-A. Petrea, T. Matei, C. Agheorghiesei, I.-L. Velicu, V. Tiron, Visualizing the invisible using qualitative Schlieren imaging, a XLVIII-a Conferinta Nationala Fizica si Tehnologiile Educaționale Moderne FTEM, May 24-25, 2019, Iasi, Romania (oral).
- 2. A. Ceban, I.-L. Velicu, V. Tiron, *Plasma diagnosis of reactive HiPIMS discharge: assessment of optimal conditions for TiN coatings deposition*, a XLVIII-a Conferinta Nationala Fizica si Tehnologiile Educationale Moderne FTEM, May 24-25, 2019, Iasi, Romania (poster).
- 3. T. Matei, M.-A. Petrea, I.-L. Velicu, Motion of objects through fluids. Estimating the drag force and terminal speed using dimensional analysis, a XLVII-a Conferinta Nationala Fizica si Tehnologiile Educaționale Moderne FTEM, May 19-20, 2018, Iasi, Romania (poster).
- **4.** M.-A. Petrea, T. Matei, **I.-L. Velicu**, *Measuring the gravitational acceleration using the parabolic free surface of a rotating liquid*, a XLVII-a Conferință Națională Fizica si Tehnologiile Educaționale Moderne FTEM, May 19-20, 2018, Iasi, Romania (**poster**).
- 5. D. Zanoschi, A. Ceban, T. Cîmpeanu I.-L. Velicu, Study on the diamagnetic behavior of water, The 46<sup>th</sup> National Conference on Physics and Modern Education Technologies FTEM 2017, May 19-20, 2017, Iasi, Romania (poster).
- **6. I.-L. Velicu**, V. Tiron, G. Popa, *FINEMET-type thin films obtained by HiPIMS: influence of deposition conditions on the deposition rate*, The 5<sup>th</sup> National Conference of Applied Physics CNFA 2013, May 23-24 2013, Iasi, Romania (**poster**).
- 7. I.-L. Velicu, V. Tiron, G. Popa, Onset of sustained self-sputtering regime in HiPIMS discharge for growing FINEMET-type thin films, Conferința Şcolilor Doctorale, October 19, 2012, Iasi, Romania (oral).
- **8. I.-L. Velicu**, M. Neagu, *FeCuNbSiB thin films deposited by HiPIMS: influence of deposition conditions and thermal treatment*, Conferința Școlilor Doctorale, October 21, 2011, Iasi, Romania (**oral**).
- 9. I.-L. Velicu, M. Dobromir, M. Neagu, H. Chiriac, D. Luca, N. Lupu, V. Pohoaţă, B. Munteanu, FeCuNbSiB thin films deposited by RF magnetron sputtering, a XL-a Conferinta Nationala Fizica si Tehnologiile Educationale Moderne FTEM, May 12-14, 2011, Iasi, Romania (oral).
- **10.** M. Dobromir, M. Neagu, H. Chiriac, A. Bulai, **I.-L. Velicu**, F. Borza, Ellipsometric investigation of Fe-based amorphous thin films, National Conference on Physics, September 23-25, 2010, Iasi, Romania (**poster**).
- **11.** A. Bulai, I.-L. Velicu, M. Neagu, V. Pohoață, B. Munteanu, *Magneto-optical System for Kerr Rotation Measurement*, a XXXIX-a Conferință Natională Fizica si Tehnologiile Educationale Moderne, May 15, 2010, Iasi, Romania (poster).
- **12.** S. Stratulat, I.-L. Velicu, A. Bulai, B. Munteanu, H. Chiriac, M. Neagu, *Magnetostrictive behaviour in amorphous magnetic thin films*, a XXXIX-a Conferință Natională Fizica si Tehnologiile Educaționale Moderne, May 15, 2010, Iasi, Romania (poster).

#### F. Participation in international conferences:

- 1. R. Schrittwieser, V. Tiron, I.-L. Velicu, A. V. Nastuţă, C. Costin, G. Popa, Z. Kechidi, C. Ioniţă, D. Alexandroaei, R. Apetrei, M. Asandulesa, P. Balan, M. Dobromir, C. Douat, S. Jaksch, C. Rusu, D. Luca, A. Murawski, C. Maszl, R. Niedrist, B. Olenici, G. B. Rusu, P. Scheier, I. Vojvodic, Research on hollow cathodes, The 19<sup>th</sup> International Balkan Workshop on Applied Physics, July 16-19, 2019, Constanţa, Romania (invited, coauthor)
- 2. V. Tiron, I.-L. Velicu, A. Ceban, D. Cristea, G. Bulai, D. Munteanu, Enhanced optical and mechanical properties of silicon dioxide thin films deposited by reactive HiPIMS, The XVIII<sup>th</sup> International Conference on Plasma Physics and Applications CPPA 2019, 20-22 June 2019, lasi, Romania (poster).
- 3. I.-L. Velicu, V. Tiron, D. Cristea, I. Mihăilă, D. Munteanu, G. Popa, *Bipolar HiPIMS: a step further in exploring new perspectives and horizons in coatings deposition*, The XVIII<sup>th</sup> International Conference on Plasma Physics and Applications CPPA 2019, 20-22 June 2019, lasi, Romania (invited, author).
- **4.** V. Tiron, E.-L. Ursu, D. Cristea, D. Munteanu, A. Menharth, A. Ceban, I.-L. Velicu, Overcoming the insulating materials limitation in HiPIMS: ion-assisted deposition of DLC coatings using bipolar HiPIMS, 11<sup>th</sup> International conference on materials science and engineering BRAMAT 2019, 13-16 March 2019, Brasov, Romania (poster).
- **5.** P. Dinca, V. Tiron, I. Mihaila, **I.-L. Velicu**, C. Porosnicu, B. Butoi, A. Velea, E. Grigore, C. Costin, C.P. Lungu, *Dual-HiPIMS system as source of fusion related W-Al composite layers having helium and deuterium inclusions*, The 9<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 25-28 June 2018, Sheffield, UK (**poster**).
- **6.** C. Porosnicu, P. Dinca, O.G. Pompilian, B. Butoi, V. Tiron, I. Burducea, **I.-L. Velicu**, C.P. Lungu, *BeW coatings deposited by hybrid HiPIMS/dcMS co-sputtering system as plasma facing material for fusion applications*, The 9<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 25-28 June 2018, Sheffield, UK (**oral**).
- 7. I.-l. Velicu, C. Porosnicu, I. Mihăilă, I. Burducea, A. Velea, D. Cristea, D. Munteanu, V. Tiron, *Bipolar High Power Impulse Magnetron Sputtering: A new approach to control the metal ion flux*, The 9<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 25-28 June 2018, Sheffield, UK (oral).
- **8. I.-L. Velicu**, V. Tiron, I. Mihaila, C. Costin, *Pulsed magnetron sputtering: the role of the applied power on W coatings properties*, The 16<sup>th</sup> International Conference on Global Research and Education inter-Academia 2017, September 25-28, 2017, Iasi, Romania (**poster**).
- **9. I.-L. Velicu**, V. Tiron, G. Popa, *High Power Impulse Magnetron Sputtering: An overview on the benefits of ultra-short pulse operating mode,* The XXXIII International Conference on Phenomena in Ionized Gases ICPIG 2017, July 9-14 2017, Lisbon, Portugal (**oral**).
- **10.** V. Tiron, **I.-L. Velicu**, N. Lupu, D. Cristea, G. Stoian, D. Munteanu, *Influence of ion-to-metal flux ratio on the mechanical and tribological properties of TiN coatings deposited by HiPIMS*, The 8<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 13-14 June 2017, Braunschweig, Germany (**poster**).
- 11. I.-L. Velicu, V. Tiron, C. Porosnicu, I. Burducea, G. Popa, D. Munteanu, *Enhanced properties of Tungsten thin films deposited with a novel HiPIMS approach*, The 11<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-11, September 8-14, 2016, Cluj-Napoca, Romania (poster).
- **12.** V. Tiron, **I.-L. Velicu**, I. Mihaila, G. Popa, *Optimization of deposition rate in HiPIMS through the control of magnetic field and pulsing configuration*, The 7<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 27-30 June 2016, Sheffield, UK (**poster**).
- **13. I.-L. Velicu**, V. Tiron, B.-G. Rusu, G. Popa, *Copper thin films deposited under different power deliver modes and magnetron configurations: A comparative study*, The 7<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, 27-30 June 2016, Sheffield, UK (oral).
- **14.** V. Tiron, I.-L. Velicu, D. Stanescu, H. Magnan, L. Sirghi, *Synthesis and Characterization of Nitrogen-Doped ZnO with High Visible Light Activity*, European-Material Research Society E-MRS, 2-6 May 2016, Lille, France (**poster**).
- **15.** V. Tiron, **I.-L. Velicu**, O. Vasilovici, G. Popa, *Optimization of deposition rate in High Power Impulse Magnetron Sputtering*, The XXXII International Conference on Phenomena in Ionized Gases ICPIG 2015, July 26-31 2015, Iasi, Romania (**poster**).
- **16.** V. Tiron, **I.-L. Velicu**, O. Vasilovici, M. Dobromir, C. Costin, G. Popa C. Porosnicu, I. Jepu, P. Dinca, C. P. Lungu, M. Straticiuc, I. Burducea, *HiPIMS technique used for fusion related mixed materials*, The XXXII International Conference on Phenomena in Ionized Gases ICPIG 2013, July 26-31 2015, Iasi, Romania (**poster**).
- 17. V. Tiron, I.-L. Velicu, C. Costin, G. Popa, C. Porosnicu, M. Straticiuc, I. Burducea, C. Lungu, Nitrogen Containing Tungsten Coatings Obtained by HiPIMS as Plasma Facing Materials for Fusion Applications, The 10<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-10, September 22-28 2014, Iasi, Romania (poster).
- **18.** V. Tiron, **I.-L. Velicu**, N. Becherescu, M. Ganciu, G. Popa, *HiPIMS process optimization by external pulsed magnetic field*, the 10<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-10, September 22-28 2014, Iasi, Romania (**poster**).
- **19. I.-L. Velicu**, M. Neagu, L. Costinescu, V. Tiron, D. Munteanu, *Nanomechanical characterization of amorphous and nanocrystalline FeCuNbSiB thin films*, the 10<sup>th</sup> International Conference on Physics of Advanced Materials ICPAM-10, September 22-28 2014, Iasi, Romania (**oral**).
- **20.** V. Tiron, O. Vasilovici, I.-L. Velicu, V. Nica, C. Costin, G. Popa, *Multi-pulse reactive HiPIMS advantages for TiO*<sub>2</sub> *deposition*, ESCAMPIG XXII, Greifswald, Germany, July 15-19, 2014 (poster).

- 21. L. Budeanu, H. Chiriac, M. Neagu, I.-L. Velicu, Magnetic and structural characterization of powders obtained by mechanical grinding of Fe<sub>73.5</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>13.5</sub>B<sub>9</sub> ribbons, 10<sup>th</sup> European Conference on Magnetic Sensors and Actuators – EMSA 2014, July 6-9, 2014, Viena, Austria (poster).
- 22. I.-L. Velicu, M. Neagu, L. Costinescu, E. Hristoforou, V. Tiron, D. Munteanu, Nanoindentation measurement of hardness and Young's modulus of amorphous and nanocrystalline FeCuNbSiB thin films, 10th European Conference on Magnetic Sensors and Actuators – EMSA 2014, July 6-9, 2014, Viena, Austria (poster).
- 23. I.-L. Velicu, M. Neagu, V. Tiron, V. Nica, H. Chiriac, Fe<sub>73.5</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>15.5</sub>B<sub>7</sub> Thin Films Deposited by HiPIMS: Magnetic and Magnetostrictive Behaviour, 4th International Conference on Superconductivity and Magnetism, 27th April – 2nd May, 2014 Antalya, Turcia (poster).
- 24. M. Dobromir, I.-L. Velicu, M. Neagu, H. Chiriac, FeCuNbSiB Thin Films Deposited by Pulsed Laser Deposition: Structural and Magnetic Properties, Nanomaterials: Application & Properties - NAP 2013, 16-21 septembrie 2013, Alushta, Ucraina (poster).
- 25. V. Tiron, C. Vitelaru, I.-L.Velicu, F. Ghiorghiu, G. Popa, On transport phenomena in high power pulse unbalanced magnetron discharge with additional external magnetic field, The XXXI International Conference on Phenomena in Ionized Gases - ICPIG 2013, July 14-19 2013, Granada, Spania (poster).
- 26. V. Tiron, I.-L. Velicu, F. Ghiorghiu, G. Popa, The effect of the additional magnetic field and gas pressure on the sheath region of a high power impulse magnetron sputtering discharge, 16th International Conference on Plasma Physics and Applications – CPPA 2013, June 20-25 2013. Magurele, București, Romania (poster).
- 27. V. Tiron, I.-L. Velicu, C. Costin, G. Popa, Dynamics of the fast HiPIMS discharge during FINEMET type films deposition, The 4<sup>th</sup> International Conference on Fundamentals and Industrial Applications of HIPIMS, June 12-13 2013, Braunschweig, Germania (oral).
- 28. I.-L. Velicu, M. Kowalczyk, M. Neagu, V. Tiron, H. Chiriac, J. Ferenc, FINEMET-type thin films deposited by HiPIMS: influence of growth and annealing conditions on the magnetic behaviour, The 9th International Conference on Physics of Advanced Materials – ICPAM-9, September 20-23 2012, Iasi, Romania (poster).
- 29. E.P. Koumoulos, I.-L. Velicu, V.P. Tsikourkitoudi, C.A. Charitidis, M. Neagu, V. Tiron, Nanomechanical properties of FINEMET-type thin films deposited by HiPIMS for sensing applications, The 9th International Conference on Nanosciences & Nanotechnologies (NN12), July 3-6 2012, Thessaloniki, Grecia (poster).
- 30. M. Dobromir, I.-L. Velicu, M. Neagu, H. Chiriac, Structural and magnetic properties of pulsed laser deposited FeCuNbSiB thin films, International Conference on Materials and Applications for Sensors and Transducers, May 24-28, 2012, Budapesta, Ungaria (poster).
- 31. I.-L. Velicu, M. Neagu, H. Chiriac, V. Tiron, M. Dobromir, V. Pohoață, B. Munteanu, Effect of preparation conditions on the magnetic properties of FeCuNbSiB thin films, The 10th International Conference on Global Research and Education – inter-Academia, September 26-29, 2011, Sucevita, România (poster).
- 32. I.-L. Velicu, M. Neagu, H. Chiriac, V. Tiron, M. Dobromir, Structural and Magnetic Properties of FeCuNbSiB Thin Films Deposited by HiPIMS, The 20th Soft Magnetic Materials Conference – SMM20, September 18-22, 2011, Kos, Grecia (poster).
- 33. I.-L. Velicu, M. Neagu, N. Lupu, H. Chiriac, V. Tiron, M. Dobromir, FeCuNbSiB thin films deposited by HiPIMS: annealing influence on the structural and magnetic properties, The 5th International Workshop on Amorphous and Nanostructured Magnetic Materials - ANMM, September 5-7, 2011, Iasi, Romania (poster).
- 34. M. Neagu, M. Dobromir, H. Chiriac, C. Agheorghiesei, B. Munteanu, V. Pohoață, I.-L. Velicu, A. Bulai, Ferromagnetic resonance studies in FeSiB amorphous thin films. The 8th European Conference on Magnetic Sensors and Actuators, July 4-7, 2010, Bodrum, Turkey (poster).
- 35. I.-L. Velicu, M. Neagu, M. Dobromir, D. Luca, H. Chiriac, A. Bulai, F. Borza, S. Stratulat, Structural, magnetic and magnetoelastic behaviour of FeCuNbSiB thin films, The 8th European Conference on Magnetic Sensors and Actuators, July 4-7, 2010, Bodrum, Turkey (poster).
- 36. M. Dobromir, M. Neagu, I.-L. Velicu, D. Luca, H. Chiriac, N. Lupu, A. Bulai, V. Dascaleanu, The influence of thermal treatments on the magnetic behavior of FeCuNbSiB thin films, The XV<sup>th</sup> International Conference on Plasma Physics and Applications, July 1-4, 2010, Iasi, Romania (poster).
- 37. M. Neagu, M. Dobromir, F. Borza, H. Chiriac, I.-L. Velicu, M. Grigoras, Thermal optimization of the magnetic properties of pulsed laser deposited FeCuNbSiB thin films, The 19th Soft Magnetic Materials Conference, September 6-9, 2009, Torino, Italia (poster).
- 38. M. Dobromir, M. Neagu, D. Luca, B. Munteanu, I.-L. Velicu, A. Bulai, The XPS study and magnetic properties of FeCuNbSiB amorphous thin films, The 10<sup>th</sup> International Balkan Workshop on Applied Physics, July 6-8, 2009, Constanta, Romania (poster).
- 39. M. Dobromir, M. Neagu, H. Chiriac, C. Agheorghiesei, G. Ababei, V. Pohoata, I.-L. Velicu, Ferromagnetic resonance studies in FeSiB amorphous thin films, 10th International Balkan Workshop On Applied Physics, July 6-8, 2009, Constanta, Romania (poster).
- 40. D. Mihăilescu, C. Munteanu, C. Aniculăesei, I.-L. Velicu, Backscattering Coeficients For 8-32 Kev Electrons: A Monte Carlo Investigation, International Physics Conference TIM-08, November 27-28, 2008, Timișoara, Romania (poster).
- 41. M. Neagu, M. Dobromir, C. Agheorghiesei, S. Stratulat, I.-L. Velicu, C. Hison, Ellipsometric and Magneto-optical Investigation of FeSiB Amorphous Thin Films, The 4th International Workshop Amorphous and Nanostructured Magnetic Materials – ANMM, August 29-31, 2007, lasi, Romania (poster).
- 42. M. Dobromir, M. Neagu, G. Popa, S. Stratulat, I.-L. Velicu, Ellipsometric investigation of Fe-based amorphous thin films: experiment and simulation, 8th International Balkan Workshop on Applied Physics, July 3-5, 2007, Constanţa, Romania (poster).
- 43. M. Neagu, M. Lozovan, M. Dobromir, I.-L. Velicu, C. Hison, Permalloy Thin Films Obtained by Pulsed Laser Deposition: Magnetic and Galvanomagnetic Behaviour, The 8th International Balkan Workshop on Applied Physics, July 3-5, 2007, Constanţa, Romania (poster).
- 44. M. Dobromir, M. Neagu, I.-L. Velicu, M. Lozovan, G. Popa, H. Chiriac, Magnetic Behavior of Permalloy Thin Films Obtained by Pulsed Laser Deposition, IEEE ROMSC, May 26-29, 2007, Iași, Romania (poster).

<b>45.</b> MA. Ciolan, IL. Velicu, ME. Macsim, D. Luca, <i>A computer-controlled goniometer for contact angle measurements</i> , Inter-Conference on Fundamental and Applied Research in Physics – FARPhys, October 26-29, 2005, Iasi, Romania (poster).	national
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