



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **LAZEA, Ileana - Andrada**
Address(es) Office: National Institute for Lasers, Plasma and Radiation Physics, 409 Atomistilor Street, 77125, Magurele - Bucharest, ROMANIA
Telephone(s) Office: (+4) 021 45 74 470
Fax(es) Office: (+4) 021 45 74 243
E-mail andrada@infim.ro
Nationality Romanian
Date of birth 01.09.1979
Gender Female

Desired employment / Occupational field

Physicist

Work experience

Dates	June 2011 - Present
Occupation or position held	Senior Researcher - grade III
Main activities and responsibilities	Carbon-based materials synthesis by means of radiofrequency (rf) plasma and device fabrications using these layers. Metallic thin films (Ti, Pt, Au, Al, etc) depositions for multilayer structures.
Name and address of employer	NATIONAL INSTITUTE OF LASERS, PLASMA AND RADIATION PHYSICS – 409 ATOMISTILOR STREET, 77125 BUCHAREST-MAGURELE, ROMANIA Http://Www.infim.ro/
Type of business or sector	Research
Dates	November 2009 - May 2011
Occupation or position held	NIMS postdoctoral Researcher
Main activities and responsibilities	Growth of phosphorus and boron doped diamond thin films by means of microwave plasma chemical vapour deposition techniques (MW CVD); Fabrication and characterization of diamond-based devices by lithography processes; Metallic compound thin films depositions (Ti, Pt, Au, Al, etc) using E-beam systems, as multilayer structures and anisotropic exhibiting special properties for prospective applications in microelectronics.
Name and address of employer	NATIONAL INSTITUTE FOR MATERIALS SCIENCE – SENSOR MATERIALS CENTER – 1-1 NAMIKI, TSUKUBA 305-0044, JAPAN http://www.nims.go.jp/eng/
Type of business or sector	Research
Dates	January 2006 - January 2009

Occupation or position held | Researcher - PhD Fellow

Main activities and responsibilities | Growth of phosphorus and boron doped diamond thin films by means of microwave plasma chemical vapour deposition techniques (MW CVD); Realization of diamond-based devices by lithography processes; Metallic compound thin films depositions (TiO₂, Fe₂O₃, Ti, Al, W, etc) using RF and sputtering plasma, as multilayer structures and anisotropic exhibiting special properties for prospective applications in microelectronics

Name and address of employer | **IMEC wzv, DIVISION IMOMECE** – WETENSCHAPENPARK, NO 1, 3590, DIEPENBEEK, BELGIUM;
<http://www.imo.uhasselt.be/>

Type of business or sector | Research

Dates | November 2003 - January 2006

Occupation or position held | Assistant Researcher

Main activities and responsibilities | Polymeric thin films deposition using radio-frequency (RF) and direct current (DC) discharge methods; Plasma surface processing and treatments: surface etching and functionalization of polymeric porous materials in order to obtain asymmetric polymeric porous materials with improved properties.

Name and address of employer | **NATIONAL INSTITUTE OF LASERS, PLASMA AND RADIATION PHYSICS** – 409 ATOMISTILOR STREET, 77125 BUCHAREST-MAGURELE, ROMANIA
<http://www.infpr.ro/>

Type of business or sector | Research

Education and training

Dates | January 2006 - May 2009

Title of qualification awarded | Doctor in Sciences - Physics

Principal subjects/occupational skills covered | Physics Studies funded by EU FP6 Marie Curie "DRIVE" (MRTN-CT-2004-512224)

Name and type of organisation providing education and training | UNIVERSITY OF HASSELT, BELGIUM AND IMEC WZV.
<http://www.uhasselt.be>

Level in national or international classification | ISCED 6

Dates | October 2002 - February 2004

Title of qualification awarded | Master in Biophysics and Medical Physics

Principal subjects/occupational skills covered | Physics Studies - Specialization: Biophysics and Medical Physics

Name and type of organisation providing education and training | UNIVERSITY OF BUCHAREST, ROMANIA
<http://www.fizica.unibuc.ro/fizica/Main.asp>

Level in national or international classification | ISCED 6

Dates | October 1998 - July 2002

Title of qualification awarded | Bachelor in Medical Physics

Principal subjects/occupational skills covered | Physics Studies - Specialization: Medical Physics

Name and type of organisation providing education and training | UNIVERSITY OF BUCHAREST, ROMANIA
<http://www.fizica.unibuc.ro/fizica/Main.asp>

Level in national or international classification | ISCED 5

Personal skills and competences

Mother tongue(s) | **ROMANIAN**

Other language(s)

Self-assessment
European level ()*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
Flemish	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
French	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
Japanese	A2	Basic user	A1	Basic user	A2	Basic user	A2	Basic user	A1	Basic user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	- team work: I have worked in various research teams, with different structures; - intercultural skills: I have worked in research teams around Europe or Asia.
Organisational skills and competences	- During my PhD studies I have actively engaged in activities such as organisation of workshops and/or research seminars; - Project management skills proved by participation in national or international project.
Technical skills and competences	The following skills were acquired by working in several research institutions; - Plasma thin films deposition techniques: polymeric thin films deposited by RF or DC plasma and growth of semiconducting diamond obtained by MW PCVD; - Material surface characterization techniques: Atomic Force Microscope (AFM), Scanning Electron Microscope (SEM) and Differential Interference Contrast Microscope (DICM); - Opto-electrical material characterization techniques: Hall measurements, Photocurrent measurements (PC and FTSP) and cathodoluminescence measurements (CL); - Device fabrication by means of optical lithography; - Other techniques/skills: Contact angle measurements, Plasma characterization by optical emission spectroscopy (OES), gas permeation characterization of polymeric membranes and clean room working experience.
Computer skills and competences	COREL DRAW GOOD MS OFFICE EXPERT ADOBE ACROBAT GOOD ADOBE PHOTOSHOP EXPERT ORIGIN GOOD
Artistic skills and competences	Painting and music (violin) are two of my favourite hobbies.
Other skills and competences	International representation and recognition acquired during my scientific career: member of the Romanian Physics Society, Belgian Physics Society, Japanese Physics Society, Material Research Society. Also, I am a referee for the following ISI recognized International Journals: Physica Status Solidi, Journal of Crystal Growth .
Driving licence	Romanian driving licence (category B)

Annexes

- Annex 1 - List of specialisation courses and trainings
- Annex 2 - List of papers (journals and proceedings)
- Annex 3 - List of presentations at international conferences (posters, orals and invited talks)
- Annex 4 - List of presentations at national conferences and workshops

Annex 1 - List of specialisation courses and trainings

- 25 - 29 August 2003, Iasi, Romania - French – Romanian Summer School “**Plasma non – termique et applications**” at the University of Iasi, Faculty of Physics
- 14 - 16 October 2003, Bucharest, Romania – International Autumn School „**Nanophysics and Nanotechnology for Biology and Medicine**” at University of Bucharest, Faculty of Physics
- 7 November - 6 December 2004, VITO, Mol, Belgium – Short-Term Scientific Missions COST Action 527 “**Plasma polymerisation and related materials**” at VITO, Mol, Belgium;
- 18 - 22 June 2007, Munich, Germany – **Diamond research on interfaces for versatile electronics (DRIVE) Marie Curie Traineeship** - Student Workshop and Summer school at Walter Schotky Institute, Garching, Munich, Germany;
- 25 June - 07 July 2007, Munich, Germany – **Diamond research on interfaces for versatile electronics (DRIVE) Marie Curie**

- Traineeship** - Short-term Scientific Training in “**Hall measurement of P-doped diamonds**” at Walter Schotky Institute, Garching, Munich, Germany;
- 29 - 31 October 2007, Leuven, Belgium – “**Project Management Course**” at IMEC wzv, Leuven, Belgium;
- 11 -12 February 2008, Leuven, Belgium – “**Project Management Course – Interpersonal Skills**” at IMEC wzv, Leuven, Belgium;
- 10 - 11 July 2008, Warwick, UK — **Diamond research on interfaces for versatile electronics (DRIVE) Marie Curie Traineeship – “Diamond Polishing Workshop”** – University of Warwick, UK;
- 20 - 27 Augustus 2008, Prague, Czech Republic - – **Diamond research on interfaces for versatile electronics (DRIVE) Marie Curie Traineeship** - Short-term Scientific Training in “**Fourier Transform Photocurrent Spectroscopy measurement of P-doped diamonds**” at Institute of Physics, Prague, Czech Republic

Annex 2 - List of papers (journals and proceedings)

1. **A. Lazea**, S. Vizireanu, C. Petcu, D. Crintea, B. Mitu, G. Dinescu
Plasma modification of porous polymeric materials
Published in Analele Universitatii “Al. I. Cuza”, p 161 – 165, Iasi, Romania, 2003.
2. **A. Lazea**, L.I. Kravets, A. Bujor, C. Ghica, G. Dinescu
Modification of polyester track membranes by plasma treatments
“Surfaces & Coatings Technology”, Vol 200/1-4, pp 529-533, 2005.
3. **A. Lazea**, L.I. Kravets, S. N. Dmitriev, G. Dinescu
Deposition of acrylic acid plasma polymer onto poly(ethylene terephthalate) nuclear track membranes
Romanian Physics Reports, Vol. 57, no 3, P 396-400, 2005.
4. L. Kravets, S. Dmitriev, A. Drachev, A. Gilman, **A. Lazea**, G. Dinescu
Controlled change of transport properties of poly(ethylene terephthalate) track membranes by plasma method
Journal of Physics: Conference series 63, 012031, 2007.
5. L. Kravets, S. Dmitriev, G. Dinescu, **A. Lazea**, V. V. Sleptsov, V. M. Elinson
Plasma-chemical modification of the structure and properties of poly(ethylene terephthalate) track membranes
Art. No. 012032, 2nd International Workshop and Summer School on Plasma Physics, vol 63, 12032, 2007
6. G. Dinescu, **A. Lazea**, L. Kravets, S. Dimitriev
Morphological, chemical and permeation characteristics of plasma modified polymeric track membranes
Journal of optoelectronics and advanced materials, vol 9, iss 6, 1645, 2007
7. V. Mortet, O. Elmazria, W. Deferme, M. Daenen, J. D’Haen, **A. Lazea**, A. Morel, K. Haenen, M. D’Olieslaeger
Titanium nitride grown by sputtering for contacts on boron-doped diamond
Plasma Processes and Polymers, 4, 5139 – 5143, 2007.
8. **A. Lazea**, V. Mortet, J. D’Haen, P. Geithner, J. Ristein, M. D’Olieslaeger, K. Haenen
Growth of polycrystalline phosphorus-doped CVD diamond layers using novel doping conditions
Chemical Physics Letters, 454/4-6, 310-314, 2008.
9. V. Mortet, M. Daenen, T. Teraji, **A. Lazea**, V. Vorliceck, J. D’Haen, K. Haenen, M. D’Olieslaeger
Characterization of boron doped diamond epilayers grown in a NIRIM type reactor
Diamond and Related Materials, 17, 1330-1334, 2008.
10. F. A. M. Koeck, R. J. Nemanich, **A. Lazea**, K. Haenen
Thermionic electron emission from low work-function phosphorus doped diamond films
Diamond and Related Materials, 18/5-8, 2009.
11. **A. Lazea**, J. Barjon, J. D’Haen, V. Mortet, M. D’Olieslaeger, K. Haenen
Incorporation of phosphorus donors in (110)-textured polycrystalline diamond
Journal of Applied Physics, 105/8, 083545, 2009.
12. K. Haenen, **A. Lazea**, J. Barjon, J. D’Haen, N. Habka, T. Teraji, S. Koizumi, V. Mortet
P-doped diamond grown on (110)-textured microcrystalline diamond: growth, characterization and devices
Journal of Physics: Condensed Matter, 21/36, 364204, 2009. Invited article.
13. K. Haenen, **A. Lazea**, S. Koizumi
Rectifying properties and photoresponse of CVD diamond p(i)n-junctions
Physica Status Solidi (Rapid Research Letters), 3/6, 208-210, 2009.
14. L. Kravets, S. Dmitriev, G. Dinescu, **A. Lazea**, V. Satulu
Effect of plasma treatment on polymer track membranes
Plasma Processes and Polymers, 6, 796-802, 2009.
15. N. Habka, J. Barjon, **A. Lazea**, K. Haenen
Raman mapping of strain in phosphorus doped polycrystalline CVD diamond layers
Journal of Applied Physics, 107, 103531-1 103531-4, 2010.
16. Y. Garino, T. Teraji, **A. Lazea**, and S. Koizumi
Forward Tunneling Current in {111}-oriented homoepitaxial diamond p-n junction
Diamond and Related Materials, 21, 33-36, 2012.
17. **A. Lazea**, Y. Garino, T. Teraji, S. Koizumi
High quality of p-type {111}-oriented CVD diamond grown for related device applications
In press, 2012.

Annex 3 - List of presentations at international conferences (posters, orals and invited talks):

1. D. L. Crintea, C. Petcu, **A. Lazea**, S. Vizireanu, B. Mitu, G. Dinescu
Emission spectroscopy investigation of molecular species in an RF expanding plasma at low and high pressure
Presented at summer school "Plasma Physics, Diagnostics and Plasma Related Applications", Kudowa Zdroj, Poland, June 23-28, 2003
2. D. L. Crintea, C. Petcu, S. Vizireanu, **A. Lazea**, B. Mitu, G. Dinescu
Excitation of nitrogen spectra in a capacitively coupled radiofrequency plasma expansion at low and high pressure
6th Euregional WELT-PP, Workshop on the Exploration of Low Temperature Plasma Physics, November 27th and 28th, 2003, "Rolduc" Kerkrade, The Netherlands (poster presentation)
3. **A. Lazea** - Oral presentation
Radiofrequency plasma modification of polymeric membranes
3rd Joint workgroup meeting COST 527, Sant Feliu de Guixols, Spain, 10 – 11th June, 2004
4. **A. Lazea**, L.I. Kravets, B. Albu, E. Raiciu, G. Dinescu - Poster presentation
Effect of plasma treatments on the structure and permeation properties of symmetric and asymmetric polymeric membranes
3rd Joint workgroup meeting COST 527, Sant Feliu de Guixols, Spain, 10 – 11th June, 2004
5. S. Vizireanu, **A. Lazea**, C. Petcu, I. Ciobanu, B. Mitu, G. Dinescu
Carbon containing coatings deposited by expanding RF plasma assisted CVD
Fourth International Workshop and School "Towards Fusion Energy - Plasma Physics, Diagnostics, Applications", Kudowa Zdroj, Poland, 7-13 iunie 2004
6. **A. Lazea**, L.I. Kravets, A. Bujor, C. Ghica, G. Dinescu - Poster presentation
Modification of polyester track membranes by plasma treatments
PSE 2004, Plasma Surface Engineering Garmisch partenchirchen, September 2004.
7. G. Dinescu, **A. Lazea**, I. Ciobanu
Electrical characteristics of a radiofrequency plasma jet operated at low and high pressure
Proceedings of ESCAMPIG (European Sectional Conference on Atomic and Molecular Processes in Ionized Gases) Constanta, Romania September 1-5, 2004
8. L.I. Kravets, **A. Lazea**, E. Raiciu, G. Dinescu
Modification of polyethylene terephthalate track membrane properties by ammonia plasma
Second Russian Conference "Applied aspects of high energy chemistry", Moscow, 26-28 October 2004, p.52-53.
9. L.I. Kravets, **A. Lazea**, E. Raiciu, G. Dinescu
Modification of polyethylene terephthalate track membrane properties by ammonia plasma
57th Annual Gaseous Electronic Conference, 26-29 2004, Queen's University Belfast & Dublin City University
10. L. Kravets, S. Dmitriev, **A. Lazea**, G. Dinescu
Effect of ammonia plasma on structure and properties of poly(ethylene terephthalate) track membranes
Sent to "International Symposium on Plasma Chemistry", (ISPC-17), Canada, Toronto, August 7-12 2005
11. L.I. Kravets, S.N. Dmitriev, **A. Lazea**, G. Dinescu
pH-Responsive Water Permeability of the Poly(ethylene terephthalate) Track Membranes Modified by Plasma of Acrylic Acid
8th International symposium on P.A.T., Budapest, Ungaria, 13-16 September, 2005
12. L. Kravets, S. Dmitriev, **A. Lazea**, G. Dinescu
Modification of poly(ethylene terephthalate) track membrane properties by ammonia plasma
International Conference on Surfaces, Coatings and Nanostructured Materials «ICSCnanoSMat 2005» Aveiro, Portugal, 7-9 September, 2005
13. L. Kravets, S. Dmitriev, **A. Lazea**, G. Dinescu
Modification of poly(ethylene terephthalate) track membrane surface by radiofrequency plasma
4th Intern. Symposium on Theoretical and Applied Plasma Chemistry, 2005. Ivanovo, Russia
14. **A. Lazea**, G. Dinescu, L. Kravets, S. Dmitriev, M. Dinescu - Poster presentation
Treatment of nuclear track membranes in ammonia plasma: modification of morphological, chemical and permeation properties
"European Materials Research Society Spring Meeting" May 31-June 3, 2005 Strasbourg, France
15. V. Părvulescu, N. Cioatera, S. Somacescu, **A. Lazea**, G. Dinescu, M. Dinescu,
Yttria stabilized zirconia –titania obtained by sol-gel and physycal methods
"European Materials Research Society Spring Meeting" Strasbourg, France, May 31-June 3, 2005
16. K. Haenen, **A. Lazea**, J. D'Haen, V. Mortet, M. Nesladek - Poster presentation
Growth and characterization of P-doped polycrystalline n-type CVD diamond
Materials Research Society Fall Meeting, Boston, MA, USA, November 27 – December 1, 2006.
17. K. Haenen, **A. Lazea**, V. Mortet, J. D'Haen, M. Nesladek, W. Gajewski, J. A. Garrido, M. Stutzmann - Poster presentation
Structural and opto-electronic characterisation of microcrystalline n-type diamond
New Diamond and Nano Carbons 2007, Osaka, Japan, May 28 – 31, 2007.
18. **A. Lazea**, V. Mortet, K. Haenen, M. D'Olieslaeger -Poster presentation
P-doped polycrystalline n-type CVD diamond
Genreal Scientific Meeting 2007 - Belgian Physical Society Conference, University of Antwerp, Belgium, May 30, 2007.
19. **A. Lazea**, V. Mortet, W. Gajewski, J. A. Garrido, M. Stutzmann, T. Teraji, K. Haenen - Oral presentation (participation on invitation)
P-doped CVD diamond films on substrates with different orientations: growth and characterisation
58th Diamond Conference, University of Warwick, UK, July 11 - 13, 2007.
20. **A. Lazea**, V. Mortet, W. Gajewski, J.A. Garrido, M. Stutzmann, P. Geithner, J. Ristein, T. Teraji, K. Haenen - Oral presentation

Polycrystalline phosphorus doped diamond films grown using novel plasma conditions

18th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides, Maritim Hotel Berlin, Berlin, Germany, September 9-14, 2007.

21. V. Mortet, M. Daenen, W. Deferme, **A. Lazea**, O. Douheret, et al - Poster presentation

Deposition and characterization of boron doped epilayers growth in a NIRIM reactor

18th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Berlin, Germany, September 9-14, 2007.

22. **A. Lazea**, V. Mortet, K. Haenen, M. D'Olieslaeger - Poster presentation

Polycrystalline n-type CVD diamond

14th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007.

23. K. Haenen, **A. Lazea**, V. Mortet, J. D'Jaen, P. Geithner, J. Risten - Oral presentation (invited presentation)

Phosphorous doping of microcrystalline CVD diamond using modified conditions

Symposium on Diamond Electronics - Fundamentals to Applications II held at the 2007 MRS Fall Meeting, November 26-30, 2007, Hynes Convention Centre and Sheraton Boston Hotel, Boston MA, USA.

24. K. Haenen, **A. Lazea**, V. Mortet, J. D'Haen, J. Barjon, T. Teraji, S. Koizumi - Oral presentation

Incorporation of phosphorous in microcrystalline diamond films: growth, characterization and devices

2nd International Conference on New Diamond and Nano Carbons (NDNC2008), May 26-29, 2008 at Grand Hotel, Taipei, Taiwan.

25. K. Haenen, **A. Lazea**, J. Barjon, V. Mortet, J. D'Haen, T. Teraji, S. Koizumi - Oral presentation (invited presentation)

Incorporation of phosphorous in microcrystalline CVD diamond studied by cathodoluminescence mapping

59th Diamond conference, St. Catherine's College, Oxford, UK, July 7-9, 2008.

26. K. Haenen, **A. Lazea**, J. Barjon, V. Mortet, J. D'Haen, T. Teraji, S. Koizumi - Oral presentation (invited presentation)

Formation of polycrystalline pn – junctions of diamond and its application

NIMS Week, Materials Science for Highly Efficient Use of Energy and Resources, 14-18 July, 2008 at Tsukuba International Congress Centre, Congress Center, Epochal, Tsukuba, Ibaraki, Japan.

27. K. Haenen, **A. Lazea**, V. Mortet, J. D'Haen, J. Barjon, T. Teraji, S. Koizumi Oral presentation

Substrate orientation dependence of the incorporation of phosphorous in microcrystalline diamond films

19th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Sitges, Spain, September 7-11, 2008.

28. **A. Lazea**, V. Mortet, J. Barjon, S. Koizumi, T. Teraji, M. D'Olieslaeger, K. Haenen - Poster presentation

Freestanding microcrystalline pn-junctions diodes

19th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Sitges, Spain, September 7-11, 2008.

29. F. A. M. Koeck, R. J. Nemanich, K. Haenen, **A. Lazea** - Poster presentation

Thermionic electron emission from low work-function phosphorous doped diamond films

19th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Sitges, Spain, September 7-11, 2008.

30. Y. Garino, T. Teraji, **A. Lazea**, and S. Koizumi – Poster presentation

Excess Tunnel Current in {111}-oriented homoepitaxial diamond p-n junction

Hasselt Diamond Workshop 2011 - SBDD XIV, Hasselt, Belgium, February 21 – 23, 2011

31. **A. Lazea**, T. Teraji, Y. Garino, S. Koizumi – Poster presentation

High quality p-type {111} homoepitaxial diamond thin films produced for diamond based devices

Symposium on Carbon functional interfaces held at the 2011MRS Spring Meeting, Moscone West Convention Centre and San Francisco Marriott Marquis Hotel, San Francisco CA, USA, April 26-28, 2011.

32. **A. Lazea**, Y. Garino, T. Teraji, S. Koizumi – Poster presentation

High quality p-type chemical vapor deposited diamonds grown for related electrical device applications

5th International Conference on New Diamond and Nano Carbons (NDNC2011) at [Kunibiki Messe](#), Matsue-city, Japan, May 16-20, 2011.

33. Y. Garino, T. Teraji, **A. Lazea**, S. Koizumi – Poster presentation

Injection Mechanism in {111}-oriented homoepitaxial diamond p-n junction

5th International Conference on New Diamond and Nano Carbons (NDNC2011) at [Kunibiki Messe](#), Matsue-city, Japan., May 16-20, 2011

Annex 4 - List of presentations at national conferences and workshops:

1. **A. Lazea**, S. Vizireanu, C. Petcu, B. Mitu, G. Dinescu, B. Albu, V. Pirvulescu

Plasma modification of porous polymeric materials;

Annual Scientific Conference of Faculty of Physics, University of Bucharest, Bucharest, 25 mai, 2003

2. C. Petcu, S. Canulescu, S. Vizireanu, **A. Lazea**, D. Crintea, B. Mitu

Radiofrequency plasma polymerization process for composite layers deposition;

Annual Scientific Conference of Faculty of Physics, Bucharest University, Romania, 25 May, 2003

3. D. Crintea, C. Petcu, **A. Lazea**, S. Vizireanu, B. Mitu, G. Dinescu

Computer simulation of molecular nitrogen emission spectral systems. Application to study of rotovibrational temperatures of high pressure RF expanding plasma;

Annual Scientific Conference of Faculty of Physics, University of Bucharest, Bucharest, 25 Mai, 2003

4. S. Vizireanu, D. Crintea, C. Petcu, **A. Lazea**, B. Mitu, G. Dinescu

Design of a simple magnetron plasma source;

Annual Scientific Conference of Faculty of Physics, University of Bucharest, Bucharest, 25 mai, 2003

5. **A. Lazea**, S. Vizireanu, C. Petcu, D. Crintea, B. Mitu, G. Dinescu

Plasma modification of porous polymeric materials

12th Conference on plasma physics and applications, Iasi, Romania, September 1-3, 2003

6. G. Dinescu, C. Petcu, S. Vizireanu, **A. Lazea**, E. Raiciu, B. Mitu, E. Barna.
Plasma polymerisation deposition from solid-state crystalline precursors
12th Conference on plasma physics and applications, Iasi, Romania, September 1-3, 2003
7. C. Petcu, **A. Lazea**, S. Vizireanu, B. Mitu, E. Raiciu, E. Barna, G. Dinescu
Composite layers deposition by radiofrequency plasma polymerization
Romanian Conference on Advanced Materials: ROCAM 2003, Constanta, Romania, September 15-18th, 2003
8. G. Dinescu, B. Mitu, S. Vizireanu, C. Petcu, **A. Lazea**, I. Ciobanu
Plasma Sources for tailoring thin films, interfaces, micro and nanostructures
National Seminar on Nanoscience and Nanotechnology, Bucharest, 27 January 2004
9. **A. Lazea**, L. I. Kravets, B. Albu, E. Raiciu, G. Dinescu
Morphological and gas permeation studies of porous polymeric membranes treated in radiofrequency plasma
Annual Scientific Conference of Faculty of Physics, University of Bucharest, Bucharest, 28 May, 2004
10. R. Ionita, G. Vlad, I. Ciobanu, **A. Lazea**, G. Dinescu
Study of the electrical characteristics of a radiofrequency discharge in nitrogen at intermediate and high pressure
Annual Scientific Conference of Faculty of Physics, University of Bucharest, Bucuresti, 28 Mai, 2004
11. **A. Lazea**, L.I. Kravets, S. N. Dmitriev, G. Dinescu
Deposition of acrylic acid plasma polymer onto poly(ethylene terephthalate) nuclear track membranes
Sesiunea Stiintifica a Facultatii de Fizica, Bucuresti, p 91,27-28 Mai, 2005
12. **A. Lazea** - Oral presentation
Polycrystalline P-doped diamond layers using novel doping conditions
7th Diamond Day, Hasselt University, Diepenbeek, Belgium, October 16, 2007.
13. **A. Lazea**, V. Mortet, J. D'Haen, P. Geithner, J. Ristein, T. Teraji, M. D'Olieslaeger - Oral presentation
Novel conditions for P-doping of polycrystalline diamond films: characterization and devices
12th Hasselt Diamond Workshop – SBDD XII, Hasselt University, Diepenbeek, Belgium, February 28-March 02, 2007.
14. **A. Lazea**, V. Mortet, J. D'Haen, B. Ruttens, J. Barjon, K. Haenen - Oral presentation
Formation of (110)-oriented polycrystalline diamond pn-junctions and their electrical and optical properties
8th Diamond Day, Hasselt University, Diepenbeek, Belgium, April 29, 2008.
15. V. Mortet, M. Daenen, T. Teraji, **A. Lazea**, Z. Remes, K. Haenen, M. Vanecek, M. D'Olieslaeger - Poster presentation
Properties of boron doped layers grown in NIRIM-type reactor
13th Hasselt Diamond Workshop – SBDD XIII, Hasselt University, Diepenbeek, Belgium, February 25-27, 2008.
16. Y. Garino, S. Koizumi, T. Teraji, **A. Lazea** – Poster presentation
Transport mechanisms in {111}-oriented homoepitaxial diamond p-n junction
24th Japanese Diamond Symposium, Japan Society of Applied Physics, Tokyo Institute of Technology, Tokyo, Japan, November 17 – 19, 2010
17. **A. Lazea**, T. Teraji, Y. Garino, S. Koizumi - Poster presentation
High quality boron-doped {111} homoepitaxial diamond thin films grown for electrical device applications
24th Japanese Diamond Symposium, Japan Society of Applied Physics, Tokyo Institute of Technology, Tokyo, Japan, November 17-19, 2010.