



## Europass Curriculum Vitae



### Personal information

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| First name(s) /<br>Surname(s) | <b>BENEA LIDIA</b>   |
| Address(es)                   | <b>BLOC 10C, AP. 13, 7 ENERGIEI STREET, 800247, Galati, Romania</b>  |
| Telephone(s)                  | + 40 236 493662   Mobile   + 40 744 216277;  |
| Fax(es)                       | + 40 236 460754; + 40 236 461353   |
| E-mail                        | <a href="mailto:Lidia.Benea@ugal.ro">Lidia.Benea@ugal.ro</a> ; <a href="mailto:lidiabd@yahoo.com">lidiabd@yahoo.com</a>  |
| Web page                      | <a href="http://www.cc-ites.ugal.ro/">http://www.cc-ites.ugal.ro/</a><br><a href="http://www.researcherid.com/rid/B-9653-2011">http://www.researcherid.com/rid/B-9653-2011</a> |
| Nationality                   | Romanian   |
| Gender                        | F  |

### Actual position / Institution / Domain

**University Professor Ph.D.**, Dun rea de Jos University of Galati, Faculty of Engineering, 47 Domneasca St., 800008, GALATI, Romania, Phone: +40 236 460754, Fax: +40 236 461353;  
**Doctoral (Ph.D.) Studies Supervisor in Engineering Science / Materials Science and Engineering - Advanced Materials.**  
[www.ugal.ro](http://www.ugal.ro)  
**Manger of Competences (Research) Centre Interfaces – Tribocorrosion – Electrochemical Systems (CC-ITES)**  
[www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro)

### Scientific interests Expertise domains

**Applied Electrochemistry to materials science, engineering and environments:** electrochemical methods for preparation of nano structured composite coatings, hybrid (inorganic – organic) layers, surface modifications, thin oxide layers, functional surfaces to improve corrosion and tribocorrosion of materials in specific environments, advanced materials, nanomaterials, micro and nanoparticles, electrochemical studies of nano (bio) electrode / environments solution interfaces, electrochemical corrosion and tribocorrosion. **Polymeric materials** used in membrane systems for nanofiltration, transdermic drug delivery or implant materials. **Characterization of materials surfaces:** Structural, morphological, compositional, micro topographic and mechanical studies of material surfaces (SEM-EDX, AFM, ultrahigh microtopography, microhardness).

### Work experience

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| Dates                  | <b>January 1991 – These days</b>                    |
| Occupation or position | University Professor (Ph.D.) and Senior Researcher. |

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| held                                 | <p>General Manager CC-ITES – Competences Center Interfaces – Tribocorrosion and Electrochemical Systems (CC-ITES). <a href="http://www.cc-ites.ugal.ro">www.cc-ites.ugal.ro</a> .</p> <p>Supervisor Doctoral (Ph.D.) Studies: Materials Engineering.</p> <p>Associate Professor Ph.D.</p> <p>Lecturer Ph.D.</p> <p>Professor Assistant.</p>  |
| Main activities and responsibilities | <p><b>Teaching (licence; master; doctoral degrees) and Research (fundamental and application research). International programs.</b></p> <p><b>Licence courses:</b><br/>Chemistry lectures (general and inorganic); Chemical Technology; Corrosion and Corrosion Protection. Technical Methods for Chemical Analysis; Crystallography; Physical Chemistry - Applied Electrochemistry.</p> <p><b>Master courses:</b><br/>Fundamentals of Metal Electrodeposition; Micro and Nano Structued Composite Coatings; Advanced Materials; Strategies and European Projects in the domain of Nanotechnologies and Nanomaterials. Environmental Impact of Materials Degradation; Interface materials - environment; Interactions material - tissue.<br/>Supervisor master degree in Nanotechnologies and Multi-Functional Materials; Interactions material - tissue.</p> <p><b>Ph.D. Courses:</b><br/>-Electrochemical techniques and methods to study and evaluate materials degradation in specific environments.<br/>-Academic writing for complementary fields of fundamental sciences and engineering and research project management. Preparation of a research plan / project.<br/>-Ethics and academic integrity in the field of fundamental sciences and engineering. Ethics of scientific research.</p> <p><b>Supervisor Ph.D. Thesis.</b><br/>Domain of Engineering Science - Materials Engineering.</p> <p><b>Organising of laboratory practice for:</b> Chemistry, Corrosion and Corrosion Protection; Electrodeposition; Materials Characterization by electrochemical methods.</p> <p><b>Bilateral Agreements with International Universities</b> for students and academic staff mobility. Ecole Centrale Paris - France; Katholieke Universiteit Leuven-Belgium; Trento University- Italy; Minho University- Portugal; Aquila University - Italy; Duisburg Essen University - Germany.</p> <p><b>Fundamental and applied research:</b> Obtaining and characterization of micro and nanostructured composite coatings; Thin oxide layers; Mechanism and kinetic of materials degradation; Corrosion; Biocorrosion; Tribocorrosion; Surface modification by electrochemical methods; Biomaterials and Biocoatings., Biocompatibility. European Research Programs and Actions.</p> <p><b>ESF-COST Actions: Member of Management Committee of</b> European Projects in the Chemistry and Materials Domains: ESF – COST: 520, 521, 533, 532, D19, D33.<br/>Vice Chair of COST D33 Action.</p> <p><b>International Bilateral Research Projects</b> with Ecole Centrale Paris (France); Katholieke Universiteit Leuven (Belgium).</p> |
| Name and address of employer         | Dunarea de Jos University of Galati, Faculty of Metallurgy, Materials Science and Environment.   |

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| Type of business or sector           | Faculty of Materials Engineering and Environment.<br>Faculty of Engineering.<br>47 Domneasca Street, 800008 Galati, Romania.   |
| Dates                                | <b>Jun 2000-Jun 2001; September - December 2001; February 2002; September- December 2002; January – December 2003; September 2003 - December 2003; February 2004; May-Jun 2004; Jun – July 2005; Jun – July 2006; December 2007; December 2008; Jun-July 2009; Jun- July 2010; October 2011; July 2013, Jun - July 2014.</b>   |
| Occupation or position held          | <b>Invited (Visiting) Professor and Invited Researcher..</b>   |
| Main activities and responsibilities | <b>Teaching and Research</b><br>Applied Electrochemistry. Electrodeposition of metals alloys and nanostructured composite. Corrosion and corrosion protection.<br>Tribocorrosion of nanostructured composite coatings and passivable metals and alloys.<br>Research and laboratory courses. Supervisor of master students and research projects on experimental methods and materials for human implants.<br>Resin-modified glass ionomer restorative material for tooth structures. Composite coatings obtained by electrochemical co-deposition.<br>Supervisor joint PhD Thesis. |
| Name and address of employer         | ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 Chatenay Malabry cedex, France.   |
| Type of business or sector           | University – Engineering School.   |
| Dates                                | <b>March 1999 - Jun 2000, July 2001, July – August 2004, May 2007.</b>   |
| Occupation or position held          | <b>Invited professor. Invited Senior Researcher.</b>   |
| Main activities and responsibilities | <b>Course in English:</b> on Surface treatments to improve the corrosion and wear resistance of materials.<br><b>Laboratory Practice Organization:</b> Electrodeposition of composite coatings; Evaluation of corrosion behaviour of materials and coatings.<br><b>Research work</b> on Electrocodeposition of ceramic nano-crystals with metals and properties investigations (wear-corrosion, SEM, XRD, electrochemical corrosion) of obtained composite coatings. Materials Engineering.  |
| Name and address of employer         | Trento University, Department of Materials Engineering, Via Mesiano 77, 38050 Trento, Italy  |
| Type of business or sector           | University – Engineering School.   |
| Dates                                | <b>October - November 1999</b>   |
| Occupation or position held          | <b>Post doctoral Research Grant of French Government.</b>  |
| Main activities and responsibilities | -Research on composite coatings from preparation to characterization.<br>-Research on electrochemical techniques (EIS) to study the electro-codeposition mechanism and kinetic of nanoparticles with metals.   |

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| Name and address of employer         | CNRS, UPR 15, Laboratory "Physique des Liquides et Electrochimie", Université Pierre et Marie Curie (Paris VI), 4 Place Jussieu, 75252 Paris Cedex 05, France.  |
| Type of business or sector           | University Pierre et Marie Curie Paris - France.  |
| Dates                                | <b>March 1998 - December 1998</b>   |
| Occupation or position held          | NATO Post Doc Research Grant in the Research Domain of Composite coatings and Electrochemical Methods of Surface modification and Characterization.   |
| Main activities and responsibilities | Research on Electrochemical and Wear Corrosion of Composite Coatings Obtained by Electrodeposition.   |
| Name and address of employer         | ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY Malabry cedex, France.  |
| Type of business or sector           | Engineering University.   |
| Dates                                | <b>March - July 1997</b>  |
| Occupation or position held          | TEMPUS INDIVIDUAL MOBILITY GRANT, from European Community to improve the courses in Chemistry, Electrochemistry and Corrosion.  |
| Main activities and responsibilities | Research on Corrosion Study of Concrete Reinforcing Steel by Impedance Spectroscopy and Linear Polarisation Methods.  |
| Name and address of employer         | ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY Malabry cedex, France.  |
| Type of business or sector           | Engineering University.   |
| Dates                                | <b>1980 - 1990</b>  |
| Occupation or position held          | <b>Researcher, Senior Researcher, Laboratory head.</b>  |
| Main activities and responsibilities | Research Projects Director.<br>Electrochemistry, Corrosion, Surface Finishing, Protective Coatings and Materials Science from technology to industrial application.<br>Partial work: Assistant Professor "Dunarea de Jos" University of Galati.<br>Teaching activity: Corrosion and Protection, Electrochemical Processes, Physical Chemistry, Crystallography, New performed materials and General and Inorganic Chemistry for engineering degree. |
| Name and address of employer         | Research Institute for Steel Plate and Metal Coatings (I.C.P.P.A.M.) of Galati, Romania.  |
| Type of business or sector           | Research Institute (R&D).   |
| Dates                                | <b>1977 - 1980</b>  |
| Occupation or position held          | <b>Chemist From Technical Office to head of Laboratory for Quality Control.</b>   |
| Main activities and responsibilities | Work organizer.<br>Laboratory analysis: water, chemical products.<br>Water technology demineralization.   |

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| Name and address of employer | Water technology purification.<br>Ammoniac, sulphuric acid, phosphoric acid and urea technology fabrication. |
| Type of business or sector   | Chemical Fertilisers Factory, in the city of Bacau, Romania.<br>Chemical Industry.                           |

## Education and training

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| Dates  | <b>1991 - 1996</b>  |
| Title of qualification awarded                                 | <b>DOCTOR OF SCIENCE IN CHEMISTRY. DIPLOMA Series N No. 001335</b>  |
| Principal subjects/occupational skills covered                 | <b>Doctor Degree (Ph.D. – Doctor of Philosophy)</b><br><b>Ph.D Studies.</b><br>Materials. Electrochemical Impedance Spectroscopy Method to Study the Composite Coating Codeposition and Electrochemical Corrosion. Comparative Surface Morphology of Metal and Composite Coatings obtained by Electrodeposition, Comparative Corrosion Properties of Modified Surfaces. |
| Name and type of organisation providing education and training | Dunarea de Jos University, Faculty of Metallurgy and Materials Science, 47 Domneasca street, 80000 Galati, Romania. University Doctoral School. <b>Doctoral studies.</b>  |
| Level in national or international classification              | <b>DOCTOR OF SCIENCE IN CHEMISTRY. Doctor Degree (Ph.D. Doctor of Philosophy).</b><br><b>Thesis: Obtaining and Structural Analysis of Composite Coating Materials.</b>  |
| Dates  | <b>1994 - 1995 (Government Grant for doctoral studies and degree research work).</b>  |
| Title of qualification awarded                                 | To whom it may concern for the work done on PhD research subjects (Attestation - Certificate).  |
| Principal subjects/occupational skills covered                 | Postgraduate studies in Physical Chemistry - Electrochemistry focusing on:<br>-Electrochemical impedance spectroscopy and potentiodynamic measurements to obtain and characterise the composite coatings materials.<br>-Scanning Electron Microscopy (SEM) and X-ray Energy Dispersive Analyse (EDS).   |
| Name and type of organisation providing education and training | Eötvös Lorand University of Budapest and Hungarian Academy of Sciences, Hungary<br>Department of Physical Chemistry; H-1518 BUDAPEST 112; Po Box 32.  |
| Level in national or international classification              | <b>Doctoral scholarship (Grant).</b><br>Scientific Reports:<br><b>Review of composite coatings materials;</b><br><b>Thermodynamic and kinetic of metals electrodeposition;</b><br><b>Structural methods for coating analysis.</b><br><b>Electrochemical methods for surfaces investigation.</b>   |

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| Dates  | <b>1985 - 1986</b>   |
| Title of qualification awarded                                 | <b>Postgraduate - Post-universities (Master) Diploma in <i>Corrosion and Corrosion Protection</i>:</b><br>DIPLOMA Series B No.2392.  |
| Principal subjects/occupational skills covered                 | -Fundamentals of Corrosion.<br>-Surface Finishing and Protective Coatings.<br>-Electrochemical Methods for Corrosion Research.<br>-Electrodeposition Studies for Alloys Electro crystallisation Mechanism.<br>-Corrosion Inhibitors.   |
| Name and type of organisation providing education and training | Polytechnica University of Bucharest, Faculty of Chemical Engineering<br>Calea Grivitei 132; 78122 BUCHAREST, Romania.   |
| Level in national or international classification              | Post university (Master Degree) - Corrosion and Corrosion Protection.<br>Thesis: <b>Zn-Fe alloys obtained by electrodeposition.</b>  |
| Dates  | <b>1978</b>  |
| Title of qualification awarded                                 | <b>Quality Assurance Certificate.</b><br>Certificate number: 9912/28-11-1978.  |
| Principal subjects/occupational skills covered                 | Fiability, maintenance, quality control, quality assurance in industrial chemistry.<br>Analytical methods for quality control.<br>Assurance Quality laws.  |
| Name and type of organisation providing education and training | Polytechnica University of Bucharest, Faculty of Chemical Engineering.<br>Calea Grivitei 132; 78122 BUCHAREST, Romania.  |
| Level in national or international classification              | Certificate (Attestation) of skills obtained in Quality Assurance for Chemical Industry.<br>Thesis: <b>Statistic methods to improve the quality control of sulfuric acid production.</b>   |
| Dates  | <b>1972 - 1977</b>   |
| Title of qualification awarded                                 | <b>M.S. IN CHEMISTRY. Faculty Degree in Chemistry.</b><br><b>DIPLOMA No.493/ 06.03.1978</b><br><b>With the Senate Recommendation for research work and skills.</b>   |
| Principal subjects/occupational skills covered                 | Faculty Student in Chemistry. University Degree. Diploma in Chemistry.<br>-General Chemistry; Inorganic Chemistry; Organic and Macromolecular Chemistry; Chemical technologies; Analytical Chemistry;<br>Electrochemistry; Applied Mathematics; Applied Physics;<br>-Catalytic processes.<br>-Physical Chemistry.<br>-Surface Chemistry.<br>Organo-metallic Chemistry. |
| Name and type of organisation providing education and training | Polytechnic University of Bucharest, Faculty of Chemistry.<br>Calea Grivitei 132; 78122 BUCHAREST, Romania.  |
| Level in national or international classification              | <b>M.S. IN CHEMISTRY.</b><br>Diploma of Bachelor's degree in Chemistry.<br>Thesis: <b>Obtaining and adsorption properties of silicon oxide particles</b>   |

for using in the catalytic area.

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| Dates  | <b>1959 - 1971</b>  |
| Title of qualification awarded                                 | <b>High SCHOOL LEAVING DIPLOMA. Diploma Series E No. 16765.</b>   |
| Principal subjects/occupational skills covered                 | Primary School<br>Secondary and<br>High School.                   |
| Name and type of organisation providing education and training | High School no. 2 of Radauti, county of Suceava, Romania.         |
| Level in national or international classification              | Mathematic, Physique and Chemistry.<br><b>High School degree.</b> |

### Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment  
*European level (\*)*

**Language**

**Language**

| Understanding |                | Speaking |                 |                    |                 | Writing           |                 |
|---------------|----------------|----------|-----------------|--------------------|-----------------|-------------------|-----------------|
| Listening     |                | Reading  |                 | Spoken interaction |                 | Spoken production |                 |
| C1            | <b>English</b> | C1       | Proficient user | C2                 | Proficient user | C2                | Proficient user |
| C1            | <b>French</b>  | C1       | Proficient user | C2                 | Proficient user | C2                | Proficient user |
| A2            | <b>Italian</b> | A2       | Basic user      | A2                 | Basic user      | A2                | Basic user      |

(\*) *Common European Framework of Reference for Languages*

### Social skills and competences

-Team spirit.  
-Good ability to adapt to multicultural environments, gained through my work experience abroad.  
-Good communication skills gained through my experience as member of Management Committee of COST European Projects.

### Studying and working experience in multicultural environment.

**I have experience in multicultural environment: Romanian, Hungarian, French and Italian the most important as time of studies and work.**

During University studies and work in Romania I achieved experience to work in industrial environment during three years. After in a Research Institute as Researcher and Research Projects manager, where I have coordinate many research groups I achieved competencies to manage and doing research in materials engineering (surface treatments, new materials, electrochemistry, corrosion and corrosion protection) in Romanian environment. Starting from 1991 I achieved experience to teach and work with Romanian student groups in the same area at Galati University.

During 1994 - 1995 I studied (for doctoral thesis, PhD) in Hungary at Eötvös Lorand University of Budapest and Hungarian Academy of Sciences focusing on the electrochemical impedance spectroscopy and potentiodynamic measurements to obtain and characterise the composite coatings materials. Competencies and experience achieved on

electrochemical techniques to study the materials behaviour in different corrosive systems in the Hungarian environment.

1997 and 1998 as TEMPUS and NATO grant for a postdoctoral formation at Ecole Centrale Paris, France, I achieved experience in tribocorrosion and corrosion behaviour of materials, structural analysis of materials by electronic microscope techniques, X. ray disperse analysis and 2D - 3D surface micro-topography and image analysis.

I achieved experience to work with French students and co-workers as well as with different nationalities postgraduate co-workers: Italian, Polish, Czech, and Arabian.

April 1999 to Jun 2000: Temporary work at Trento University Department of Materials Engineering, Italy, as invited professor, and senior researcher, Working group of Prof. P. L. Bonora. I give courses in Surface treatments by electrodeposition to improve the corrosion and wear resistance of materials. Research work on codeposition of ceramic nanocrystals with metals and properties of obtained composite coatings. I achieved experience to teach, manage and do research work with Italian students and co-workers.

Jun 2000 to Jun 2001, September 2001-February 2002, September 2002-February 2003, September 2003-December 2003, February 2004, Mai- Jun 2004, Jun – July 2005, Jun – July 2006 : As Invited Senior Researcher Scientific and Invited Professor (Temporary work) at ECOLE CENTRALE PARIS, C.F.H. Laboratory. I achieved competencies in doing Research and Teaching on electrodeposition and wear corrosion of materials. Experience in work with French co-workers, French students and others Students nationalities as Swedish, German, Italian, Arabian, Czech, and Polish, which studied at that time at Ecole Centrale Paris. Also in the same time I achieved experience in Management and Organisation of the French Research Projects and Laboratory Practice as well as European Project (EREBIO -FP5).

During 1998-2010 as member of Management Committee of COST 533 Materials (Materials for Improved Wear Resistance of Total Artificial Joints), COST D33 (Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials), COST D19 CHEMISTRY – Chemical Functionality to Nanometer Scale, COST 520 (Biofouling and Materials) and COST 521 (Corrosion of Steel in Reinforced Concrete Structures) european actions. I achieved experience and competencies in working with many nationalities partners (French, Italian, German, Swedish, Finnish, Spanish, Portugal, Hungarian, English, in the management of budgets and projects. At the same time I have been the manager of Romanian projects:

-RO1-Comparative corrosion studies of Zn-Fe alloy coatings and Zn coatings on steel reinforcing structures, RO-Marine bio - corrosion of SiC-Ni nano-structured composite coatings, RO-Electrochemical Aspects and Bio - Tribocorrosion Properties of Actually Used Nickel Based Alloys and Alternative Materials and Coatings in artificial joints, WG2-RO-Electrochemical and biotribocorrosion studies of interfaces between (composites, metallic, polymeric, ceramic) materials and micro organisms, M1-WG3-Tribochemistry: *Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation.*

2005-2006: Competencies and experience in working and organise exchange of researchers with French people, as director of Romanian part, in the Bilateral Research Project between Romania and France PAI-BRANCUSI (“Dunarea de Jos” University of GALATI, Romania – Ecole Centrale Paris, Laboratoire LGPM). *Etude de dépôts composites*



*nanostructurés, pour la protection des surfaces métalliques contre la tribocorrosion.*

2003-2005: Competencies and experience in working and organise exchange of researchers with Belgium people, as director of Romanian part, in the Bilateral Research Project between Romania and Belgium ("Dunarea de Jos" University of GALATI, Romania - Katholieke Universiteit Leuven, Belgium): " *Tribocorrosion of engineering materials in view of their industrial use as sliding parts in pumps, shafts, and motors operated in water-lubricated conditions*".

2002: Competencies in working with German people in the frame of bilateral research project between Dunarea de Jos" University of GALATI, Romania and Chemnitz University of Technology - Germany, as co-worker.

Good writing and redactional skills acquired in many publications with different nationality co-workers: Italian, French, and Belgian (Publications List and Books).

Oratory speaker during plenary, keynote and oral presentations at national and international level acquired at National and International Scientific Congresses, Europe, Japan, USA and Canada, see Conferences at International Congresses.

#### Organisational and management skills and competences

Individual and team work, team-oriented and good communication skills.

Research management experience at national and European level.

Coordination of people and projects in Romania as project manager and working group manager as well as organization of student's curses, student's laboratory practice at "Dunarea de Jos" University of Galati.

Budgets administration of managed research projects during the Romanian work at Research Institute as well as at University, Dept. of Metallurgy and Materials Science.

Coordination, administration of people, projects and students during temporary work in France, and Italy in the periods mentioned above.

**Management competences** achieved during the period of Management Committee Member of European Projects:

#### **MANAGEMENT COMMITTEE OF EUROPEAN RESEARCH ACTIONS AND PROJECTS:**

**COST 521 - Corrosion of Steel in Reinforced Concrete Structures.**

<http://www.cc-ites.ugal.ro/finalizate.htm>

**COST 520 - Biofouling and Materials.**

<http://www.cc-ites.ugal.ro/finalizate.htm>

**COST D19 – Chemistry - Chemical Functionality Specific to the Nanometer Scale.**

[http://www.cost.eu/COST\\_Actions/cmst/D19?management](http://www.cost.eu/COST_Actions/cmst/D19?management)

**Vice-Chair of COST D33 – Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials, Director of the Project.**

[http://www.cost.eu/COST\\_Actions/cmst/D33?management](http://www.cost.eu/COST_Actions/cmst/D33?management)

**COST 532 - WG3 Tribochemistry:** <http://www.cc-ites.ugal.ro/finalizate.htm>

**COST 533 – Materials – Materials for Improved Wear Resistance of Total Artificial Joints.**

[http://www.cost.eu/COST\\_Actions/mpns/533?management](http://www.cost.eu/COST_Actions/mpns/533?management)

**COST 636 - Xenobiotics in the Urban Water Cycle.**

**Organisation and Coordination skills** achieved as member in International Scientific Committee and Chairman of sessions at different

International Congresses and Scientific organisation:

**2007:** Member of International Scientific Committee BIOCORYS 2007 – International

Conference on Biocorrosion of Materials. 11-14 June, Paris, France.

**2002:** CHAIRMAN of WP 18 Tribocorrosion - Knowledge dissemination and training, European Federation of Corrosion.

**2003:** Member of International Scientific Committee EUROCORR 2003, Budapest, Hungary.

**2008: Chairman of WG1-WG2 Workshop event COST D33 2008:** COST D33 EU Project: Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials. Period: 6th to 8th November 2008, Bucharest Romania.

**2008: Member of International Scientific Committee for the** Conference on Corrosion and Modern Technologies in the Military. November 5-8, 2008. Bucharest, ROMANIA.

**2009: Chairman of COST D33 final workshop: Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials,** 13-15 May 2009, Cluj Napoca, Romania.

**2009: Member of International Scientific Committee Membru UGALMAT 2009.**

**2010: Member of International Scientific Committee (Program).**

**CPA 2010: Conference on Corrosion and Corrosion Protection** (Conferinta de Coroziiune si Protectie Anticoroziva) 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv .

**2011: Member of International Scientific Committee MATERIALS 2011, Guimarães, Portugal and VI International Materials Symposium MATERIAIS 2011, XV meeting of SPM - Sociedade Portuguesa de Materials** 18-20 April 2011, Guimarães, Portugal.

**2011: Member of International Scientific Committee:** The 1<sup>st</sup> Edition of the International Conference of Young Researchers. New trends in environmental and materials engineering. May 18 - 20, 2011 in Galati, Romania.

**2011: Member of International Scientific Committee:** International workshop research quality in doctoral school, Increased industrial and international visibility (POSDRU 19524) / 13 – 14 July 2011, Galati, Romania.

**Chair person for Sessions during International Congresses and Conferences:**

-2002: Chairperson of Session "Coatings", at 15<sup>th</sup> International Corrosion Congress, Granada Spain.

-1998: Chairperson of Session "Deposition", International Society of Electrochemistry, 49<sup>th</sup> Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.

-2003: Chairperson of Session: "*Tribocorrosion Aspects of Coatings*" Eurocorr 2003.

-2008: Co-chair of Session 5 ORAL COMMUNICATIONS. *Sfantu Gheorghe* Hall (Chair: Dr. Srinivasa RAO, Prof. Lidia BENEÀ). International Conference on Corrosion and Modern Technologies in the Military. November 5-8, 2008. Bucharest, Romania.

**-Coordinator of 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization, NanoSurf 03/2014** jointly with PERFORM, 23 – 25 July 2014, Galati, România.

[http://www.cc-ites.ugal.ro/Invitation\\_Workshop\\_NanoSurf\\_03\\_-](http://www.cc-ites.ugal.ro/Invitation_Workshop_NanoSurf_03_-)

[2014\\_&\\_PERFORM\\_2014.pdf](#)

**-Chairperson Session 2, Room D: International Scientific Conference CORROSION 2014, Session 2, 18 – 21 November 2014, Gliwice, Poland.**

<http://www.corrosion2014.polsl.pl/index.php?lang=en>

**-Chairperson:** Professor Dr. Ing. Lidia BENEĂ, Dunarea de Jos University of Galati, Romania. Session Tribochemistry (Tchem). BALKANTRIB' 14 8th International Conference on tribology. 30thOct.-1stNov.2014, Sinaia, Romania. Organized by Balkan Tribological Association.

**-Coordinator of International Seminar: Scientific Approach in Research Methodology & Universe of Biomaterials.** Organized in the frame of Research Project PNII-PCE - New hybrid (inorganic-organic) functionalization of biomaterials (metals alloys) surfaces with functional molecules by electrochemical techniques. Acronym: HyBioElect Contract 10 / 30-08-2013 (2013-2016) - UEFISCDI, 23 of July 2015.

<http://www.hybioelect.ugal.ro>

**Organisation of people and scientific activities at European level:**

-During 2002 with Prof J. P. Celis (Katholieke Universiteit Leuven) Dr. P. Ponthiaux and F. Wenger (Ecole Centrale Paris), I participate at organization and implementation of a new Working Party, WP18 - Tribocorrosion, in the European Federation of Corrosion.

-Vice chairman of COST D33 –Chemistry, European action. WG1 Leader and Project manager.

**Organisation and administration of Socrates Erasmus Programme** for academic staff and students mobility and training between Dunarea de Jos University of Galati, Ecole Centrale Paris, Trento University, Katholieke Universiteit Leuven, on the signed bilateral agreements for Materials Science and Engineering Domain.

**Organisation and administration of people and projects** during the EU project as manager titled: "Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation", accepted in the COST 532 action: Triboscience and Tribotechnology, WG3 Tribochemistry Project M1. The project is collaboration between Romania, France, Belgium, Italy and Hungary and Others European Projects.

#### Peer review activity and evaluation

#### **EXPERT EVALUATOR and RAPPORTEUR:**

European Commission – RDG Science Research and Development, Engineering Science Panel, Chemistry Panel.

Identification: FP5: EE19981A24009.

Intas Expert: ID-4458.

FP6: EX2002B002205, FP7: EX2002B002205

Expert CNCSIS 2004-2015.

National Expert Register 2005-2015.

#### **Scientific reviewer for ISI International Journals:**

ACS Nano, Corrosion Science, Electrochimica Acta, Solid State Electrochemistry, Surface and Coatings Technology, Scripta Materialia, Journal of Electroanalytical Chemistry, Journal of Biomedical Materials Research: Part B – Applied Biomaterials, Wear, Tribology International, Composites Part B, Materials and Design, Applied Surface Science, Materials Chemistry and Physics, Science and Technology of Advanced Materials.

#### **Scientific Reviewer for International Ph.D. Thesis:**

**Dicarboxylic acids as corrosion inhibitors for carbon steel in ground water.** Autor Felicia Rajammal Selvarani, Supervisor: S. Rajendran. Universitatea Madurai Kamaraj University – India.

**Inhibition of corrosion of mild steel in acidic media by some mannich bases.** Autor: Mr. M. ANWAR SATHIQ. Supervisor: Dr. A. Jamal Abdul Nasser. Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, Tamil Nadu, India.

**Inhibition of corrosion of mild steel in well water by phenolic compounds.** authored by: Mrs. H BENITA SHERINE. Bharathidasan University, Thiruchirappalli - 620 024 – India.

**Scientific Editorial Board:**

**Member of Scientific Editorial Board : *The Annals of “Dunarea de Jos” University of Galati, Fascicle IX.*** Metallurgy and Materials Science. ISSN 1453-083X.

ANALELE UNIVERSITĂȚII “DUNAREA DE JOS” DIN GALAȚI. FASCICULA IX. METALLURGIE ÎN MATERIALELOR  
 Member of Scientific Editorial Board ISI Journal: *ISRN Corrosion*. ISSN: 2090-8903 (Online) doi:10.5402/CORROSION.

**Technical skills and competences**

Good command of quality control processes acquired through training. Skills and competences in specialized electrochemical instruments, scanning electron microscopy and ultra high microtopography acquired through work experience abroad.

**Computer skills and competences**

Very good computer technical skills: Microsoft Office, Word, Excel, PowerPoint, Photo Paint, CorelDraw, Origin, Internet. Art work. Acquired through work, seminars, conferences, etc.

**Specific area of activity**

**TEACHING AND RESEARCH**

**Chemistry**

- Electrochemical studies and methods. Chemical technologies. Surface Chemistry.
- Corrosion and wear corrosion (tribocorrosion) of materials (mechanisms and kinetics).
- Fundamentals of Metal Electrodeposition,
- Micro and Nano Structured Composite Coatings.
- Research on surface modifications technologies to improve the corrosion and wear resistance of materials.
- Research on environment compatibility of triboreactive materials and lubricants.
- Development and understating of surface reactivity.
- Research on lubricants and additives.
- Electro analytical methods of investigations.
- Kinetic and mechanism of materials (metallic, coatings) degradation by combined action of corrosion and wear= tribocorrosion.

**Materials Science and Engineering**

- Nano and micro structured composite coatings, complex degradation, biomaterials passive state, corrosion, kinetic, tribocorrosion.
- Surface treatments by electrodeposition of metals, alloys and composites to improve the corrosion and wear resistance of materials.
- Degradation of Materials by Corrosion and wear corrosion, Tribocorrosion, Biocorrosion.
- New materials obtained by co-deposition of dispersed particles with

|   |   |
|---|---|
|   | <p>metals and alloys to obtain micro and nano structured coatings.</p> <ul style="list-style-type: none"> <li>-Nanomaterials.</li> <li>-Electrocatalytic activity of metal matrix composite coatings obtained by electrocodeposition.</li> <li>-General and Inorganic Chemistry.</li> <li>-Industrial Wastewater treatments.</li> <li>-Resin-modified glass ionomer restorative materials for tooth structures.</li> </ul> <p><b>Materials characterisation</b></p> <ul style="list-style-type: none"> <li>-DC and AC electrochemical measurements.</li> <li>-Scanning electronic microscope.</li> <li>-Transmission electronic microscope.</li> <li>-X-ray disperse analysis.</li> <li>-2D -3D surface micro topography and surface analysis.</li> </ul> |
| <b>Driving licence</b>  | Category B  |
| <b>Member of professional associations</b>                                    | <p><b>MEMBERSHIP:</b></p> <ul style="list-style-type: none"> <li>International Society of Electrochemistry (ISE).</li> <li>ECS - The Electrochemical Society Inc. (ECS USA).</li> <li>CEFRACOR France.</li> <li>Royal Society of Chemistry (RSC).</li> <li>Romanian Society of Chemistry.</li> </ul> <p><b>CHAIRMAN (2002-2004) and Member- of WP 18 Tribocorrosion – Action: Knowledge dissemination and training, European Federation of Corrosion.</b></p> <p><b>Vice Chair of COST D33 - Chemistry.</b></p> <p><b>11 Prize and Diplomas</b> at Scientific National Conferences for scientific and technical presentations.</p>  |
| <b>Daniel Bunea Award For Excellence in Materials Engineering and Science</b> | <p><b>Awarded by 8th International Conference on Materials Science and Technologies – RoMat 2020, November 26-27, 2020, Bucharest, Romania.</b></p> <p><b>For Excellence in Materials Engineering and Science</b></p>   |
| <b>Special CRYSTAL AWARD and CERTIFICATE SGEM 2018</b>                        | <p><b>Awarded by Scientific Chairmen of the SGEM 2018 Conference as Best presenters awarded with special CRYSTAL AWARD and CERTIFICATE! of 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.</b></p>  |
| <b>DIPLOMA of SILVER MEDAL 2017</b>   | <p><b>DIPLOMA of SILVER MEDAL, awarded in 2017 by EUROINVENT 2017 - EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION. for invention patent: Co/nano-ZrO<sub>2</sub> functional surfaces obtained by electrodeposition, authored by Lidia Benea and Florentina Sorcaru.</b></p>  |

|   |  |
|---|--|
| <p><b>Anghel Saligny<br/>Diploma of Excellence<br/>2017</b></p> | <p><b>ANGHEL SALIGNY DIPLOMA</b> for excellence results as university professor position.<br/>Awarded in 2017 by Engineering Faculty from Dun rea de Jos University of Galati.</p>   |
| <p><b>Excellence Diploma<br/>2016</b></p>                       | <p><b>EXCELLENCE DIPLOMA</b> for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncu i-Humbert Curien".<br/>Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI).</p>   |
| <p><b>Anghel Saligny<br/>Diploma<br/>2016</b></p>               | <p><b>ANGHEL SALIGNY DIPLOMA</b> for excellence results as university professor position.<br/>Awarded in 2015 by Engineering Faculty from Dun rea de Jos University of Galati.</p>   |
| <p><b>ACS<br/>Certificate of<br/>Appreciation<br/>2011</b></p>  | <p><b>CERTIFICATE OF APPRECIATION</b> for valuable contribution and dedicated service in the peer review of manuscripts submitted to ACS Journals.<br/>Awarded in 2011 by American Chemical Society (ACS) Publishing Group.</p>  |
| <p><b>Excellence Diploma<br/>2010</b></p>                       | <p><b>Excellence Diploma</b> for Research Activity in Corrosion and Corrosion Protection.<br/>Awarded in 2010 by:<br/>Technical University of Cluj –Napoca and Industrial Factory BETAK S.A.</p>   |
| <p><b>Specific Achievements<br/>Scientific Results</b></p>      | <p><b>Published books and / or participation at Chapters of Books: 23.</b><br/><b>Editorial work for books and DVD proceeding: 5.</b><br/><b>Total published papers in National and Internationals Journals: 282.</b><br/><b>-Total scientific papers published in ISI (Journals + Proceeding Volumes): 97.</b><br/><b>-Scientific papers published in ISI Thomson Reuters Journals: 54.</b><br/><b>-Cumulative impact factor (I.F.) = 129.943.</b><br/><b>-Scientific papers published in ISI Proceedings Volumes: 43.</b><br/><b>-Scientific papers published in BDI journals: 65.</b><br/><b>-Scientific papers published in others national journals and</b></p> |

**Conference Proceedings: 120.**

**Scientific presented papers as Invited Lectures, Keynote, Oral and Posters at International and National Conferences: 351 (138 during 2014-2020).**

**65 scientific research projects, as director and / or co - worker, on metal, alloy and composite coating by electroplating technologies applied to technical products, mechanisms and kinetics of corrosion and tribocorrosion processes, chemical analyses, development of new products, materials and coatings.**

Author of **11 invention** patents and **35 innovators** in the fields of applied electrochemistry, materials engineering new materials, coatings and corrosion protection).

**2016: 1 Article published in TOP 1 Journals in the research domain: MATERIALS SCIENCE, COATINGS & FILMS, after AIS** (Classification PRECISI-UEFISDCI-Romanian Ministry of Education and Research).

Scientific and academic international Recognition Hirsch Index and citations

**Academic and scientific responsibilities:**

●**2017-2020: Director of Doctoral (Ph.D.) School: Fundamentals and Engineering Sciences (SFI) at Dunarea de Jos University of Galati. Rector Decision: 2857 / 26-10-2017.**

<http://www.ugal.ro/studii/doctorat/conducere-executiva-iosud>

●**2020-2024: Member of the National Council for Attesting Titles, Diplomas and Certificates Universitaires (CNATDCU), Ministry of Education and Research, Romania for the period 2020-2024, Materials Science and Engineering Committee, Ministry of education and research Order: nr. 4.621/2020.**

<http://ugal.ro/anunturi/stiri-si-evenimente/7854-udjg-reprezentata-la-nivelul-comisiilor-cnatdca-pentru-mandatul-2020-2024>

[https://www.edu.ro/sites/default/files/\\_fi%C8%99iere/Minister/2020/inv.%20superior/new%20CNATDCU%202020-2024/ANEXA\\_3.pdf](https://www.edu.ro/sites/default/files/_fi%C8%99iere/Minister/2020/inv.%20superior/new%20CNATDCU%202020-2024/ANEXA_3.pdf)

●**Member of the National Council for Attesting Titles, Diplomas and Certificates Universitaires (CNATDCU), Ministry of National Education, Romania for the period 2016-2020, Materials Engineering Committee, Ministry Order: OMENCS nr. 4.106/10.06.2016.**

<http://www.edu.ro/index.php/articles/24513>

●**Director of Research Center Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES) at "Dunarea de Jos" University of Galati (institutional accreditation 2007). [www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro)**

●**Coordinator of Erasmus Programmes with Ecole Centrale Paris - France, Katholieke Universiteit Leuven - Belgium, Duisburg - Essen University - Germany, Trento University - Italy.**

●**CHAIRMAN of WP 18 Tribocorrosion – Action: Knowledge dissemination and training, European Federation of Corrosion (2002-2004).**

**VICE CHAIR OF COST D33 - CHEMISTRY - Chemistry to the nanoscale.**

**10 PRIZE AND DIPLOMAS at Scientific National Conferences for**

scientific and technical presentations.

● **42 Invited Conferences** at International Scientific Symposia and Congresses.

● **TOP 25/2007 articles, 2007 TOP Cited Articles** within the journal: **Solid State Ionics.**

**Preparation and investigation of nanostructured SiC-nickel layers by electrodeposition.**

<http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid-state-ionics/01672738/archive/11/>

### Hirsch Index and citations

**Citations in international ISI Journals: (Benea, L\*, or Benea L\*, or Lidia Benea):**

● **1724 Citations of ISI published articles in ISI Journals in ISI Web of Knowledge Clarivate Analytics (Benea L\* or Lidia B\*):**

$$h_{BeneaLidia}^{WebofKn} = 22$$

[http://apps.webofknowledge.com/CitationReport.do?product=UA&search\\_mode=CitationReport&SID=C383tQoz3Si3NJp9GhZ&page=1&cr\\_pqid=1&viewType=summary](http://apps.webofknowledge.com/CitationReport.do?product=UA&search_mode=CitationReport&SID=C383tQoz3Si3NJp9GhZ&page=1&cr_pqid=1&viewType=summary)

● **2384 Citations of ISI published articles in ISI Journals in Google Scholar (Google Academic), 1329 for 2015-2019 period:**

$$h_{BeneaLidia}^{GoogleSch} = 20, h_{BeneaLidia}^{GoogleSch} = 16 \text{ for 2015-2019 period.}$$

<https://scholar.google.com/citations?hl=en&user=rSniQ6sAAAAJ>

● **1851 Citations of ISI published articles in ISI Journals in SCOPUS:**

**Scopus – Science Direct: SCOPUS ID: 55954358700.**

$$h_{BeneaLidia}^{Scopus} = 21$$

<https://www.scopus.com/authid/detail.uri?authorId=55954358700>

[https://www.scopus.com/cto2/main.uri?origin=resultslist&stateKey=CTOF\\_1130537333](https://www.scopus.com/cto2/main.uri?origin=resultslist&stateKey=CTOF_1130537333)

**Researcher ID web page:**

<http://www.researcherid.com/rid/B-9653-2011>

<https://publons.com/researcher/2805949/lidia-benea/>

**ORCID:**

<http://orcid.org/0000-0003-1551-3960>

**Brainmap**

<https://www.brainmap.ro/profile/Lidia-BENEA>

**2016  
Highly Cited  
Researcher**

DESIGNED by Thomson Reuters as a 2016 Highly Cited Researcher because my work has been identified as being among the most valuable and significant in the field. Very few researchers earn this distinction – writing the greatest number of reports, officially designated by Essential Science Indicators as Highly Cited Papers. In addition, these reports rank among the top 1% most cited works for their subject field and year of publication, earning them the mark of exceptional impact.

**Fulfillment**

**Habilitation standards: CNATDCU Commission 7 - Materials Science and Engineering.**



**Domain:**  
**Engineering Sciences**  
**– Materials Science**  
**and Engineering**

| Condiții   | Îndeplinire condiții  |  |
|--|---|--|
| <b>A. Doctor</b>   | DIPLOMA DE DOCTOR Seria N, Nr. 001335, emisă în baza Ordinului Ministrului Învățământului nr. 3543 din 03 aprilie 1996.   |  |
| <b>B. Îndeplinirea standardelor minime naționale conform: Ordinului ministrului educației, naționale și cercetării științifice nr. 6129 / 2016. [MENC S nr. 6129/2016] [Susținere abilitare, Domeniul <i>Ingenieria Materialelor</i>, Comisia CNATDCU [Anexa nr. 7].</b> | Standarde îndeplinite, conform Comisiei CNATDCU Nr. 7 - COMISIA DE INGINERIA ȘI ȘTIINȚA MATERIALELOR.<br>Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate: |  |
| <b>Condiții minime Profesor [Punctaj]</b>  | <b>Minim prevăzut</b>   | <b>Realizat/ punctaj și % / Raport</b>                                 |
| (A1). Activitatea didactică și profesională.   | 60  | 399,69 666.15 %<br><b>Raport = 6.66</b>                                |
| (A2). Activitatea de cercetare.  | 320   | 3009,63..... 940,50 %<br><b>Raport = 9.40</b>                          |
| (A3). Recunoașterea și impactul activității (A3)   | 120   | 8316,39 6930.32 %<br><b>Raport = 69,30</b>                             |
| <b>TOTAL A</b>   | <b>500</b>  | <b>11725,71, 2345,14 %</b><br><b>Raport = 23.45</b>                    |
| <b>Condiții minime obligatorii pe subcategorii [Număr]</b>   | <b>Minim prevăzut</b>   | <b>Realizat</b>  |
| <b>A1: Activitatea didactică și profesională</b>   | <b>60</b>   | <b>399.69</b>  |
| <b>A1: 1.1. Cărți și capitole în carti de specialitate.</b>  | -   | <b>9 din care</b>  |
| 1.1.1 Cărți / capitole ca autor: 1.1.1.1. Internaționale   | -   | 3 - internaționale<br>din care: 2 prim autor                           |
| 1.1.1 Cărți / capitole ca autor: 1.1.1.2. Naționale  | 2 din care 1 ca prim autor  | 6 - naționale<br>din care: 6 prim autor                                |
| 1.1.2 Cărți/ capitole ca editor  | -   | 4  |
| <b>A1: 1.2. Material didactic / Lucrări didactice</b>  | -   | 5  |
| 1.2.1 Manuale didactice / Monografii (minim 2)   | 2   | 2  |
| 1.2.2 Indrumatoare de laborator/aplicații.   | -   | 3  |
| <b>A2: Activitatea de cercetare</b>  | <b>320</b>  | <b>3009,63</b>   |
| <b>A2: 2.1. Articole în reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings</b>   | <b>15</b>   | <b>95</b>  |
| Din care: Minim 10 in Reviste cotate ISI Th.R.   | 10  | 52   |
| Minim 5 lucrări in Reviste cotate ISI Th.R. cu $F.I. \geq 1$   | 5   | 37   |
| Minim 5 lucrări ISI ca autor principal cu $F.I. \geq 0.5$  | 5   | 6  |
| <b>A2: 2.2. Articole in reviste si volumele unor manifestaristiintifice indexate in alte baze de date internationale [BDI], în specificul postului scos la concurs.</b>  | -   | 83,50  |
| <b>A2: 2.2. Articole in reviste si volumele unor manifestaristiintifice indexate in alte baze de date internationale [BDI], în specificul postului scos la concurs.</b>  | -   | Realizat: 64 din care:<br>36 in Anale BDI (B+)<br>28 in Vol. Conf. BDI |
| <b>A2: 2.3. Brevete de invenție</b>  | -   | 11 brevete<br>2.49 puncte  |
| <b>A2: 2.3.1. Naționale</b>  | -   | 2.49   |
| <b>A2: 2.4. Granturi/proiecte de cercetare câștigate prin competiție / Contracte cu agenți economici, minim 10000 echivalent Euro încasați. [punctaj]</b>  | -   | 670  |
| <b>A2: 2.4. Granturi/proiecte de cercetare câștigate prin competiție / Contracte cu agenți economici, minim 10000 echivalent Euro încasați. [condiții minime].</b>   | 2   | 14: din care:<br>11 Internaționale.<br>3 Naționale.                    |
| <b>A2: 2.1. Granturi/proiecte de cercetare ca Director .</b>   | 1   | 11 Director Internaționale<br>3 Director naționale                     |
| <b>A3: Recunoașterea și impactul activității</b>   | <b>120</b>  | <b>8316,39</b>   |
| <b>A3: 3.1. Citări în reviste cotate în ISI [FI Factor de Impact] și în alte BDI (FI se referă la revista în care a fost publicat articolul care citează).</b>   | -   | 5698.39  |
| 3.1.1. Citări ISI  | -   | 5698.39  |
| 3.1.1. Citări ISI: Minim 30 citări în ISI pentru Profesor.   | 30  | 1546   |
| 3.1.2. Citări BDI  | -   | necalulat  |
| <b>A3: 3.2. Prezentări invitate prezentate în plenul unor conferințe naționale și internaționale și Profesor invitat (exclusiv Erasmus).</b>   | -   | 400  |
| <b>A3: 3.3. Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice / Recenzor pentru reviste și manifestări științifice naționale și internaționale.</b>                        | -   | 118  |
| <b>A3: 3.4. Expert evaluare proiecte cercetare</b>   | -   | 2100   |

Domain:  
Chemistry

| CATEGORIE                             | Profesor/CS 1/Habilitare |   | Grad de îndeplinire % |
|---------------------------------------|--------------------------|---|-----------------------|
|                                       | Criteriu                 | PUNCTAJ   |                       |
| N <sub>max</sub>                      | Standard                 | 50  | Indeplinit            |
|                                       | Realizat                 | 50<br>Luata în considerare 48 articole publicate în<br>jurnale cotate ISI (Clarivate Analytics), 2<br>capitole în cărți vizibile în peste 150 de biblioteci |                       |
| FIC                                   | Standard                 | 100   | 127.81%               |
|                                       | Realizat                 | 127.81  |                       |
| FIC <sub>D</sub>                      | Standard                 | 70  | 182.58%               |
|                                       | Realizat                 | 127.81  |                       |
| FIC <sub>AP</sub>                     | Standard                 | 50  | 205.78%               |
|                                       | Realizat                 | 102.89  |                       |
| FIC <sub>AC</sub>                     | Standard                 | 25  | 411.56%               |
|                                       | Realizat                 | 102.89  |                       |
| Hirsch index (h)<br>(fără autocitiri) | Standard                 | 13  | 169.23%               |
|                                       | Realizat                 | 22 WOS  |                       |

**Legend :**

**N<sub>max</sub>** Primele maxim N lucrări auzate în ordinea descresc toare a factorilor de impact.

**Hirsch index (h)** – minim 13.

**FIC** - minim 100 (factorul de impact cumulat minimal al revistelor in care s-au publicat lucrările în cauză).

**FIC<sub>D</sub>** factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate.

**FIC<sub>ap</sub>** - minim 50 factorul de impact cumulat minimal din publicatii în calitate de autor principal.

**FIC<sub>AC</sub>** minim 25 factorul de impact cumulat minimal din publicații în calitate de autor corespondent.

October 2020

Prof. Univ. Dr. (Ph.D.) Lidia BENEĂ

## Daniel Bunea Award

For Excellence in Materials Engineering and Science

Awarded by 8th International Conference on Materials Science and Technologies – RoMat 2020, November 26-27, 2020, Bucharest, Romania.

For Excellence in Materials Engineering and Science



# ROMAT 2020

8<sup>th</sup> International Conference on Materials Science and Technologies

Bucharest, Romania, November 26-27<sup>th</sup>, 2020



## “Daniel Bunea” AWARD

FOR EXCELLENCE IN MATERIALS ENGINEERING AND SCIENCE

given to

**LIDIA BENEA**

“Dunarea de Jos” University, Galati, Romania

**Radu ȘTEFĂNOIU**

Dean

Faculty Materials Science and Engineering  
University POLITEHNICA of Bucharest

**Iulian Vasile ANTONIAC**

ROMAT 2020 President

Faculty Materials Science and Engineering  
University POLITEHNICA of Bucharest

**Special CRYSTAL AWARD and CERTIFICATE SGEM 2018: Awarded by Scientific Chairmen of the SGEM 2018 Conference as Best presenters awarded with special CRYSTAL AWARD and CERTIFICATE! of 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.**



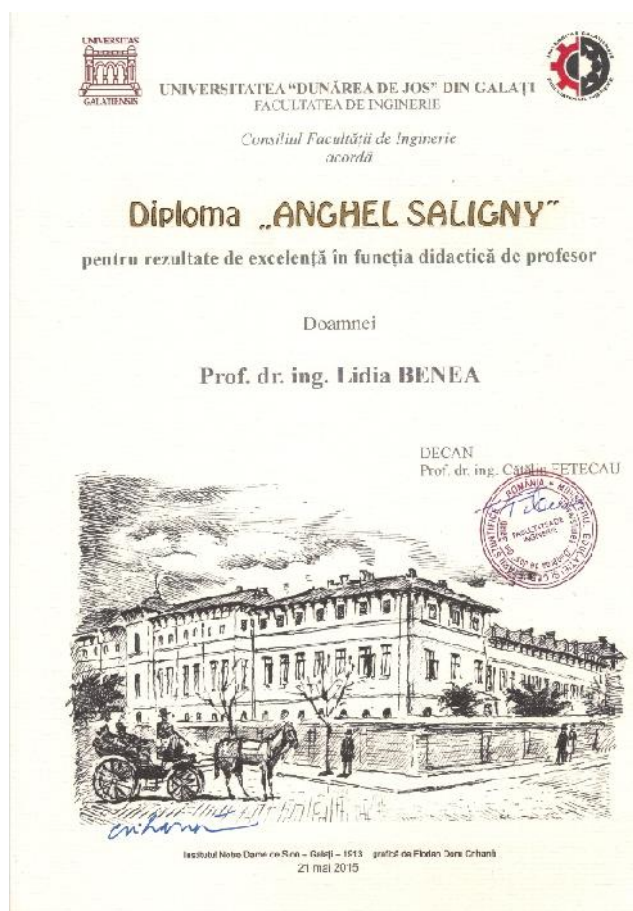


**EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncu i-Humbert Curien".**

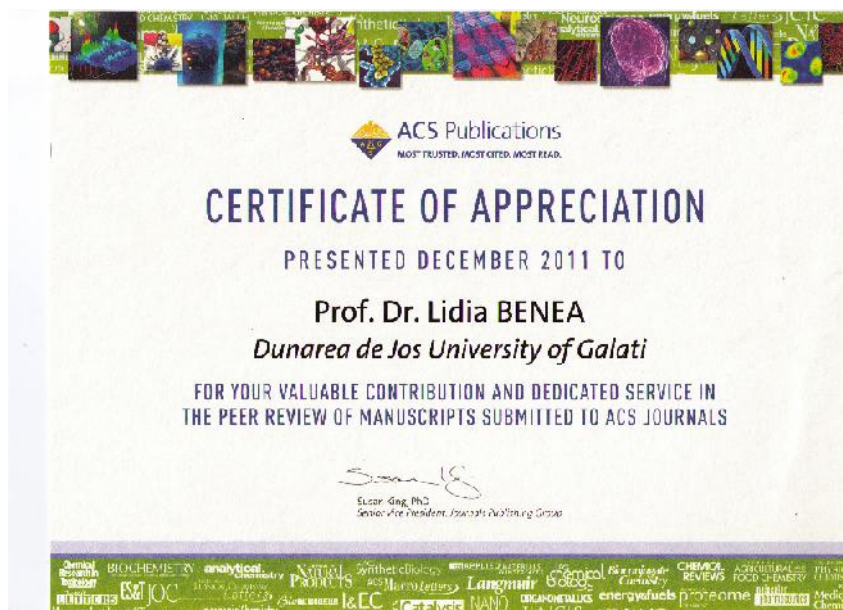
**Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI)**



**ANGHEL SALIGNY DIPLOMA for excellence results as university professor position. Awarded in 2015 by Engineering Faculty from Dunărea de Jos University of Galati.**



**CERTIFICATE OF APPRECIATION** for valuable contribution and dedicated service in the peer review of manuscripts submitted to ACS Journals.  
Awarded in 2011 by American Chemical Society (ACS) Publishing Group



**Excellence Diploma 2010**  
acordat de Universitatea Tehnică Cluj Napoca și Societatea BETAK pentru activitatea deosebită în domeniul Coroziunii și Protecției Anticorozive.  
**Excellence Diploma for Research Activity in Corrosion and Corrosion Protection.**  
Awarded by: Technical University of Cluj–Napoca and Industrial Factory BETAK S.A.





[View on Mobile or Online](#)



Dear Lidia,

I would like to extend congratulations on being named a 2016 Highly Cited Researcher and to announce the availability of the official 2016 list.

You were selected as a Highly Cited Researcher because your work has been identified as being among the most valuable and significant in the field. Very few researchers earn this distinction – writing the greatest number of reports, officially designated by Essential Science Indicators as Highly Cited Papers. In addition, these reports rank among the top 1% most cited works for their subject field and year of publication, earning them the mark of exceptional impact.

Now that you have achieved this designation, you will always retain your Highly Cited Researcher status. Share your recognition!

- Add this [badge](#) to your website, LinkedIn profile and email signature
- [Request a physical copy](#) of a personalized letter and certificate for display. Requests can be made through the end of December.
- Join the conversation on social media using the hashtag [#HighlyCited](#)

I applaud your contributions to the advancement of scientific discovery and innovation and wish you continued success.

Best regards,

A handwritten signature in black ink, appearing to read 'Vin Caraher'.

Vin Caraher

October 2020

Prof. Univ. Dr. (Ph.D.) Lidia BENEÀ

--//--

Prof. Dr. Lidia BENEĂ  
 Competences (Research) Centre  
 Interfaces – Tribocorrosion and Electrochemical Systems (CC-ITES)  
 Faculty of Engineering  
 Dunarea de Jos University of Galati  
[Lidia.Benea@ugal.ro](mailto:Lidia.Benea@ugal.ro)  
<http://www.cc-ites.ugal.ro/>  
<http://www.researcherid.com/rid/B-9653-2011>  
<https://publons.com/researcher/2805949/lidia-benea/>  
<https://www.brainmap.ro/profile/Lidia-BENEĂ>

**LIST OF PUBLICATIONS (ARTICLES, BOOKS, CHAPTERS, STUDIES PUBLISHED)**

**Articole cotate ISI Thomson Reuters**

**Published papers in ISI Thomson Reuters Journals**

**54 Articole in jurnale cotate ISI din care 43 cu F.I. >0.5 i 11 cu F.I. < 0.5**

**43 Articole in ISI Proceedings.**

**TOTAL: 97 articole cotate ISI (54 jurnale cotate ISI + 43 Proceedings ISI).**

I = ISI International  
 RO = ISI din Romania

| $N_{ref}$ | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat          | I / RO*        |
|-----------|---|-------------------|-----------------------------------|----------------|
|           | <b>TOTAL</b>  | <b>33</b>         | <b>129.943</b>                    | <b>35 / 20</b> |
| 54        | Lidia Benea, Laurentiu Mardare.<br>The effect of polymeric protective layers and the immersion time on the corrosion behavior of naval steel in natural seawater.<br><i>Journal of Materials Research and Technology</i> , 2020, Volume 9, Issue 6, November–December 2020, Pages 13174-1318.<br>ISSN: 2238-7854. |                   | <b>Q1</b><br>5.289 /<br>SRI=3.084 |                |



| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat   | I / RO* |
|------------------|---|-------------------|----------------------------|---------|
|                  | <a href="https://doi.org/10.1016/j.jmrt.2020.09.059">https://doi.org/10.1016/j.jmrt.2020.09.059</a><br><a href="https://www.sciencedirect.com/science/article/pii/S223878542031783X">https://www.sciencedirect.com/science/article/pii/S223878542031783X</a>  |                   |                            |         |
| 53               | Veaceslav Neaga, <b>Lidia Benea*</b> , Andrada Alexandru.<br><b>316L Stainless Steel Alloys for Orthodontic Application: Effect of Fluorinated Toothpaste on the Corrosion Behavior in Human Saliva.</b><br><i>International Journal of Electrochemical Science (Int. J. Electrochem. Sci.)</i> , 15 (2020) 9568 – 9578.<br>doi: 10.20964/2020.10.17<br><a href="http://www.electrochemsci.org/papers/vol15/151009568.pdf">http://www.electrochemsci.org/papers/vol15/151009568.pdf</a><br><a href="http://www.electrochemsci.org">www.electrochemsci.org</a><br>ISSN 1452-3981   |                   | Q3<br>1.573 /<br>SRI=0.416 |         |
| 52               | <b>Benea, Lidia</b> ; Ravoii, Anca; Celis, Jean Pierre.<br><b>Anticorrosion performance of the electrochemically grown mixed porous oxide films on titanium alloy in biological solution.</b><br><i>ACS Biomaterials Science &amp; Engineering.</i><br><i>ACS Biomater. Sci. Eng.</i> 2019, 5, 11, 5925-5934.<br>Publication Date:September 26, 2019.<br>ID: ab-2019-006266<br>ISSN: 2373-9878.<br><a href="https://doi.org/10.1021/acsbiomaterials.9b00626">https://doi.org/10.1021/acsbiomaterials.9b00626</a><br><a href="https://pubs.acs.org/doi/abs/10.1021/acsbiomaterials.9b00626">https://pubs.acs.org/doi/abs/10.1021/acsbiomaterials.9b00626</a><br><b>Cite this:</b> <i>ACS Biomater. Sci. Eng.</i> 2019, 5, 11, 5925-5934<br>Publication Date:September 26, 2019<br><a href="https://doi.org/10.1021/acsbiomaterials.9b00626">https://doi.org/10.1021/acsbiomaterials.9b00626</a><br><b>Copyright © 2019 American Chemical Society</b> |                   | Q1<br>4.511 /<br>1.587     |         |
| 51               | <b>Lidia Benea</b> , Nicoleta Simionescu, Jean Pierre Celis.<br><b>Electro-codeposition of CeO<sub>2</sub> nanoparticles into cobalt matrix to improve the tribocorrosion performances of Co/nano CeO<sub>2</sub> composite layers in biological solution for medical applications</b><br><b>Reference: JMBBM_103443</b>  |                   | Q1<br>3.485 /<br>/         |         |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)  | Prim autor / P.A. | F.I. / SRI F. I. Cumulat              | I / RO* |
|------------------|--|-------------------|---------------------------------------|---------|
|                  | <p><i>Journal of the Mechanical Behavior of Biomedical Materials</i>. Volume 101, January 2020, 103443.<br/> <b>Article Number: 103443</b>; <a href="#">Volume 101</a>, January 2020, 103443.<br/>           DOI: <a href="https://doi.org/10.1016/j.jmbbm.2019.103443">https://doi.org/10.1016/j.jmbbm.2019.103443</a><br/>           ISSN: 1751-6161.<br/>           Accepted Date: 18 September 2019.<br/> <a href="https://www.sciencedirect.com/science/article/pii/S1751616119309191">https://www.sciencedirect.com/science/article/pii/S1751616119309191</a><br/> <a href="https://www.sciencedirect.com/journal/journal-of-the-mechanical-behavior-of-biomedical-materials/vol/101/suppl/C">https://www.sciencedirect.com/journal/journal-of-the-mechanical-behavior-of-biomedical-materials/vol/101/suppl/C</a></p> |                   | 1.492                                 |         |
| 50               | <p><b>Lidia Benea</b> and Valentin Dumitrascu.<br/> <b>Enhancement in sustained friction and wear resistance of nanoporous aluminum oxide films obtained by controlled electrochemical oxidation process.</b><br/> <i>RSC Advances</i>; <i>RSC Adv.</i>, 2019, 9, 25056–25063.<br/>           DOI: <a href="https://doi.org/10.1039/c9ra05702a">10.1039/c9ra05702a</a><br/> <a href="http://rsc.li/rsc-advances">rsc.li/rsc-advances</a><br/>           WOS: 000481573800044</p>   |                   | <b>Q1</b><br>3.049<br>AIS<br>1.472    |         |
| 49               | <p>NICOLETA SIMIONESCU, ANCA RAVOIU, <b>LIDIA BENEĂ*</b><br/> <b>Electrochemical in vitro Properties of 316L StainlessSteel for Orthodontic Applications.</b><br/> <i>REV.CHIM.(Bucharest)</i>, Vol. 70, No. 4, 2019, pp. 1144-1148.<br/>           .(Bucharest) 70 No. 4 20191144<br/> <a href="http://www.revistadechimie.ro/pdf/8%20SIMIONESCU%204%2019.pdf">http://www.revistadechimie.ro/pdf/8%20SIMIONESCU%204%2019.pdf</a><br/> <a href="http://www.revistadechimie.ro/archive.asp?last=1">http://www.revistadechimie.ro/archive.asp?last=1</a></p>   |                   | <b>Q3</b><br>1.605<br>AIS = 0.140     |         |
| 48               | <p><b>Lidia Benea</b>, Jean Pierre Celis.<br/> <b>Reactivity of porous titanium oxide film and chitosan layer electrochemically formed on Ti-6Al-4V alloy in biological solution.</b><br/> <i>Surface &amp; Coatigs Technology</i>, 2018, 354 (2018) 145–152.<br/> <a href="https://doi.org/10.1016/j.surfcoat.2018.09.015">https://doi.org/10.1016/j.surfcoat.2018.09.015</a></p>   |                   | <b>Q1</b><br>3.192 /<br>AIS=<br>1.464 |         |
| 47               | <p><b>Lidia Benea</b>, Laurentiu Mardare, Nicoleta Simionescu.</p>   | PA-27             | <b>Q1</b>                             |         |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat   | I / RO* |
|------------------|---|-------------------|----------------------------|---------|
|                  | <b>Anticorrosion performances of modified polymeric coatings on E32 naval steel in sea water.</b><br><i>Progress in Organic Coatings</i> , 2018, vol 123, p. 120-127.<br><a href="https://doi.org/10.1016/j.porgcoat.2018.06.020">https://doi.org/10.1016/j.porgcoat.2018.06.020</a><br>Impact Factor = 3.420   |                   | 3.420<br>/<br>AIS= 1.526   |         |
| 46               | VALENTIN MARIAN DUMITRA CU, LIDIA BENEÀ<br><b>Improving The Corrosion Behavior Of 6061 Aluminum Alloy By Controlled Anodic Formed Oxide Layer.</b><br><i>Revista de Chimie</i> . 68 No. 1 2017, p. 77-80.<br>Journal ISSN: 0034-7752<br>Online and Print Journal.<br>REV.CHIM.(Bucharest) 68 No. 1 2017, p. 77-80.<br><a href="http://www.revistadechimie.ro">http://www.revistadechimie.ro</a><br><a href="http://www.revistadechimie.ro/pdf/DUMITRASCU%20V%20M%201%2017.pdf">http://www.revistadechimie.ro/pdf/DUMITRASCU%20V%20M%201%2017.pdf</a>  |                   | Q3<br>1.605<br>AIS = 0.140 |         |
| 45               | <b>Lidia Benea, Eliza Danaila:</b><br><b>Nucleation and growth mechanism of Ni/TiO<sub>2</sub> nanoparticles electro-codeposition.</b><br><i>Journal of The Electrochemical Society</i> , 2016, 163 (13), pp. D655 - D662.<br>ISSN: 0013-4651<br>IF=3.120<br>TOP 1 dupa AIS<br>DOI name: 10.1149/2.0591613jes ; <a href="http://jes.ecsdl.org/cgi/content/abstract/163/13/D655">http://jes.ecsdl.org/cgi/content/abstract/163/13/D655</a><br><a href="http://www.wos.org/WOS/000389155900073">WOS:000389155900073</a> .<br><b>TOP 1 în domeniul:</b><br><b>MATERIALS SCIENCE, COATINGS &amp; FILMS</b><br><b>Din UEFISCDI-Lista revistelor aflate pe primul loc in subdomeniul corespunzator, in functie de scorul de influenta al acestora (AIS) Indexate in Science Citation Index Expanded sau Social Sciences Citation Index - TOP 1.</b> | PA-26             | Q1<br>3.120<br>AIS = 1.923 | I-29    |
| 44               | Eliza D n il , Lidia Benea* , Nadège Caron, Olivier Raquet;<br><b>Titanium Carbide Nanoparticles Reinforcing Nickel Matrix for Improving Nanohardness and</b>   |                   | Q1                         | I-28    |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat                               | I / RO* |
|------------------|---|-------------------|--|---------|
|                  | <b>Fretting Wear Properties in Wet Conditions.</b><br><i>Metals and Materials International</i><br>September 2016, Volume 22, <a href="#">Issue 5</a> , pp 924–934<br>2018 Impact Factor =1.647<br><a href="https://doi.org/10.1007/s12540-016-6090-x">doi: 10.1007/s12540-016-6090-x</a> .<br>ISSN: 1598-9623<br>First Online: <a href="#">19 August 2016</a><br>Cite this article as:<br>D n il , E., Benea, L., Caron, N. et al. Met. Mater. Int. (2016) 22: 924. doi:10.1007/s12540-016-6090-x  |                   | 1.647<br>/<br>SRI=1.153<br><b>Red after IF</b>         |         |
| 43               | Alina Crina CIUBOTARIU, Lidia BENEÀ, Pierre PONTIAUX <sup>b</sup><br><b>Corrosion resistance of Zinc-Resin hybrid composite coatings obtained by electro-codeposition</b><br><i>Arabian Journal of Chemistry.</i><br>ISSN: 1878-5352<br><a href="https://doi.org/10.1016/j.arabjc.2016.07.002">doi:10.1016/j.arabjc.2016.07.002</a><br><a href="http://www.sciencedirect.com/science/article/pii/S1878535216301009">http://www.sciencedirect.com/science/article/pii/S1878535216301009</a><br>IF = 3.298  |                   | <b>Q1</b><br>3.298<br>AIS 1.558<br><b>Red after IF</b> | I-27    |
| 42               | Lidia Benea, Nadege Caron and Olivier Raquet.<br><b>Tribological behavior of Ni matrix hybrid nanocomposite reinforced by titanium carbide nanoparticles during electro-codeposition.</b><br><i>RSC Advances. RSC Advances</i> , 2016, <b>6</b> , 59775 - 59783.; <i>RSC Advances</i> , 2016,<br><a href="https://doi.org/10.1039/C6RA03605H">DOI: 10.1039/C6RA03605H</a><br><a href="http://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra03605h#!divAbstract">http://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra03605h#!divAbstract</a><br>ISSN: 2046-2069 | P.A. = 25         | <b>Q1</b><br>3.049<br>AIS<br>1.472                     | I-26    |
| 41               | Lidia Benea and Jean-Pierre Celis.<br><b>Effect of Nano-TiC Dispersed Particles and Electro-Codeposition Parameters on Morphology and Structure of Hybrid Ni/TiC Nanocomposite Layers. ;</b>  | P.A. = 24         | <b>Q2</b><br>2.972                                     | I-25    |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat                     | I / RO* |
|------------------|---|-------------------|--|---------|
|                  | <p><i>Materials</i>, 2016, 9(4), 269.<br/>doi:10.3390/ma9040269 ;<br/><a href="http://www.mdpi.com/1996-1944/9/4/269">http://www.mdpi.com/1996-1944/9/4/269</a><br/>ISSN 1996-1944<br/>Galben: pozitia 67:<br/><b>MATERIALS SCIENCE, MULTIDISCIPLINARY</b></p>  |                   | AIS 1.405                                    |         |
| 40               | <p>Lidia Benea, Eliza Danaila, Pierre Ponthiaux.<br/><b>Effect of titania anodic formation and hydroxyapatite electrodeposition on electrochemical behaviour of Ti-6Al-4V alloy under fretting conditions for biomedical applications.</b><br/><i>Corrosion Science</i>, Volume 91, February 2015, Pages 262–271. Available online 21 November 2014.<br/>ISSN: 0010-938X<br/>doi:10.1016/j.corsci.2014.11.026<br/><a href="http://www.sciencedirect.com.ux4l18xu6v.useaccesscontrol.com/science/article/pii/S0010938X14005472">http://www.sciencedirect.com.ux4l18xu6v.useaccesscontrol.com/science/article/pii/S0010938X14005472</a></p> | P.A. - 23         | <p><b>Q1</b><br/>6.355<br/>AIS<br/>3.942</p> | I - 24  |
| 39               | <p>Lidia BENEÀ, Sorin – Bogdan BA A, Eliza D n il , Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS<br/><b>Fretting and wear behaviors of Ni/nano-WC composite coatings in dry and wet conditions.</b><br/><i>Materials and Design</i> 65 (2015) 550–558. ISSN: 0261-3069. Online 2 oct 2014., publicat 14 oct 2014.<br/><a href="http://dx.doi.org/10.1016/j.matdes.2014.09.050">http://dx.doi.org/10.1016/j.matdes.2014.09.050</a><br/><a href="http://www.sciencedirect.com/science/article/pii/S0261306914007523">http://www.sciencedirect.com/science/article/pii/S0261306914007523</a></p>                       | P.A. - 22         | <p><b>Q1</b><br/>5.770<br/>AIS<br/>2.595</p> | I – 23  |
| 38               | <p>Lidia Benea, Eliza Mardare - Danaila, Jean-Pierre Celis.<br/><b>Increasing the tribological performances of Ti-6Al-4V alloy by forming a thin nanoporous TiO<sub>2</sub> layer and hydroxyapatite electrodeposition under lubricated conditions.</b><br/><i>Tribology International</i>. <i>Tribology International</i> 78 (2014) 168–175.<br/><a href="http://dx.doi.org/10.1016/j.triboint.2014.05.013">http://dx.doi.org/10.1016/j.triboint.2014.05.013</a> 0301-679X/&amp;</p>   | P.A. - 21         | <p><b>Q1</b><br/>3.517<br/>AIS<br/>1.666</p> | I - 22  |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat    | I / RO* |
|------------------|---|-------------------|-----------------------------|---------|
| 37               | Lidia Benea, Eliza Danaïla, Jean-Pierre Celis,<br><b>Influence of electro-co-deposition parameters on nano-TiO<sub>2</sub> inclusion into nickel matrix and properties characterization of nanocomposite coatings obtained.</b><br><i>Materials Science &amp; Engineering A.</i><br><i>Materials Science and Engineering: A</i> , Volume 610, 29 July 2014, Pages 106-115.<br><a href="http://dx.doi.org/10.1016/j.msea.2014.05.028">http://dx.doi.org/10.1016/j.msea.2014.05.028</a>   | P.A. - 20         | Q1<br>4.081<br>AIS<br>2.959 | I - 21  |
| 36               | Lidia Benea, Eliza Mardare, Marilena Mardare, Jean-Pierre Celis.<br><b>Preparation of titanium oxide and hydroxyapatite on Ti-6Al-4V alloy surface and electrochemical behaviour in bio-simulated fluid solution.</b><br><i>Corrosion Science</i> 80 (2014) pp. 331–338.<br>ISSN: 0010-938X.<br>DOI: <a href="http://dx.doi.org/10.1016/j.corsci.2013.11.059">http://dx.doi.org/10.1016/j.corsci.2013.11.059</a>  | P.A. - 19         | Q1<br>6.355<br>AIS<br>3.942 | I - 20  |
| 35               | Lidia BENEÀ, Alina CIUBOTARIU, Wolfgang SAND.<br><b>Biofilm formation and corrosion resistance of Ni/SiC nanocomposite layers.</b><br><i>International Journal of Materials Research</i> . 103 (2012) E page 1-9. (2013) Vol. 104, No. 5, pp. 489-497.<br>ISSN: 1862-5282.<br>DOI 10.319/146.110893.  | P.A. - 18         | Q1<br>0.748<br>AIS<br>0.579 | I - 19  |
| 34               | A. I. PAVLOV, L. BENEÀ, J.-P. CELIS, L. VAZQUEZ,<br><b>Influence of nano-TiO<sub>2</sub> co-deposition on the morphology, microtopography and crystallinity of Ni/Nano-TiO<sub>2</sub> electrosynthesized nanocomposite coatings.</b><br><i>Digest Journal of Nanomaterials and Biostructures</i> . Vol. 8, No. 3, July - September 2013, p. 1043 - 1050. ISSN: 1842 – 3582.<br><a href="http://www.chalcogen.infim.ro/1043_Benea.pdf">http://www.chalcogen.infim.ro/1043_Benea.pdf</a> | -                 | Q3<br>0.638<br>AIS<br>0.243 | RO-16   |
| 33               | Lidia BENEÀ.<br><b>Electrochemical Impedance Spectroscopy and Corrosion Behavior of Co/CeO<sub>2</sub> Nanocomposite</b>  | P.A. - 17         | Q1<br>1.985                 | I - 18  |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)  | Prim autor / P.A. | F.I. / SRI F. I. Cumulat       | I / RO* |
|------------------|--|-------------------|--------------------------------|---------|
|                  | Coatings in Simulating Body Fluid Solution.<br><i>Metallurgical and Materials Transactions A</i> . Vol 43A, pp 1-9, 2012 (November). ISSN 1073-5623. VOLUME 44A, FEBRUARY 2013. p1114-1122.<br><a href="https://doi.org/10.1007/s11661-012-1422-z">DOI: 10.1007/s11661-012-1422-z</a> .  |                   | AIS<br>2.066                   |         |
| 32               | Eliza Mardare, Lidia BENEÀ, and Jean-Pierre Celis.<br>Novel Nano-TiO <sub>2</sub> layer preparation on Ti-6Al-4V support alloy and their characterization.<br><i>Digest Journal of Nanomaterials and Biostructures</i> . Issue 3, July-September 2012, pp. 933-939. ISSN 1842 – 3582.<br><a href="http://www.chalcogen.infim.ro/933_Mardare.pdf">http://www.chalcogen.infim.ro/933_Mardare.pdf</a><br><a href="http://connection.ebscohost.com/c/articles/77592308/novel-nano-tio2-layer-preparation-ti-6al-4v-support-alloy-their-characterization">http://connection.ebscohost.com/c/articles/77592308/novel-nano-tio2-layer-preparation-ti-6al-4v-support-alloy-their-characterization</a><br><a href="https://lirias.kuleuven.be/handle/123456789/361738">https://lirias.kuleuven.be/handle/123456789/361738</a> |                   | Q3<br>0.638<br>AIS<br>0.243    | RO-15   |
| 31               | <a href="#">Stefan Balta, Arcadio Sotto, Patricia Luis, Lidia Benea, Bart Van der Bruggen, Jeonghwan Kim.</a><br>A new outlook on membrane enhancement with nanoparticles: the alternative of ZnO.<br><i>Journal of Membrane Science</i> . Volume 389, 1 Feb. 2012. pp. 155-161. <a href="#">ISSN</a> : 0376-7388.<br><a href="https://doi.org/10.1016/j.memsci.2011.10.025">doi:10.1016/j.memsci.2011.10.025</a>  | -                 | Q1<br>7.015<br>AIS<br>3.818    | I - 17  |
| 30               | L. Benea; S. F. Sorcaru; P. Ponthiaux; F. Wenger.<br>Electrosynthesis and performances of cobalt-ceria nanocomposite biocoatings.<br><i>Advances in Applied Ceramics</i> . online 27 December 2011. Vol. 111, Nr 3, April 2012 ,pp. 134-141(8). ISSN: 1743-6753.<br><a href="https://doi.org/10.1179/1743676111Y.0000000068">DOI: http://dx.doi.org/10.1179/1743676111Y.0000000068</a>   | P.A. -<br>16      | Q2<br>1.429<br>AIS<br>1.413    | I - 16  |
| 29               | Lidia BENEÀ, Pierre PONTTHIAUX, Francois WENGER.<br>Co-ZrO <sub>2</sub> electrodeposited composite coatings exhibiting improved micro hardness and corrosion behaviour in simulating body fluid solution.<br><i>Surface &amp; Coatings Technology</i> . 205, 2011. 5379-5386. ISSN: 0257-8972.<br><a href="https://doi.org/10.1016/j.surfcoat.2011.05.050">DOI: 10.1016/j.surfcoat.2011.05.050</a> .   | P.A. -<br>15      | Q1<br>3.192 /<br>AIS=<br>1.464 | I - 15  |
| 28               | L. Benea, M. Mardare-Prlea.  | P.A. -            | Q3                             | RO-14   |

| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)  | Prim autor / P.A. | F.I. / SRI F. I. Cumulat    | I / RO* |
|------------------|--|-------------------|-----------------------------|---------|
|                  | Electrodeposition of UHMWPE particles with cobalt for biomedical applications. <i>Digest Journal of Nanomaterials and Biostructures</i> . Volume 6, Number 3, July-September 2011, p-p. 1025-1034. ISSN 1842 – 3582.<br><a href="http://www.chalcogen.infim.ro/1025_Benea.pdf">http://www.chalcogen.infim.ro/1025_Benea.pdf</a><br><a href="http://connection.ebscohost.com/c/articles/69673016/electrodeposition-uhmwpe-particles-cobalt-biomedical-applications">http://connection.ebscohost.com/c/articles/69673016/electrodeposition-uhmwpe-particles-cobalt-biomedical-applications</a> | 14                | 0.638<br>AIS<br>0.243       |         |
| 27               | A. C. Ciubotariu, L. Benea, P. L. Bonora.<br>Corrosion studies of carbon steel X60 by electrochemical methods. <i>Journal of optoelectronics and advanced materials</i> . Volume: 12, Issue: 5 Published: MAY 2010, pp. 1170-1175. ISSN: 1454-4164.<br><a href="https://getinfo.de/app/Corrosion-studies-of-carbon-steel-X60-by-electrochemical/id/BLSE%3ARN281843150">https://getinfo.de/app/Corrosion-studies-of-carbon-steel-X60-by-electrochemical/id/BLSE%3ARN281843150</a>   | -                 | Q3<br>0.588<br>AIS<br>0.169 | RO-13   |
| 26               | Lidia Benea,<br>Electrodeposition and tribocorrosion behaviour of ZrO <sub>2</sub> -Ni composite coatings. <i>Journal of Applied Electrochemistry</i> . (2009) 39 1671-1681. ISSN: 0021-891X.<br>DOI: 10.1007/s10800-009-9859-5.   | P.A. -<br>13      | Q1<br>2.366<br>AIS<br>0.871 | I 14    |
| 25               | L. Benea, F.Wenger, P. Ponthiaux, J.P. Celis.<br>Tribocorrosion behaviour of Ni-SiC nano-structured composite coatings obtained by electrodeposition. <i>Wear</i> . Volume: 266, Issue: 3-4, Published: 2009, 398-405. ISSN: 0043-1648.<br>DOI: 10.1016/j.wear.2008.04.018.  | P.A. -<br>12      | Q1<br>2.950<br>AIS<br>1.687 | I - 13  |
| 24               | A. C. Ciubotariu, L. Benea, O. Mito eriu, P. Ponthiaux, F. Wenger.<br>Influence of particles size on the morphology and corrosion behaviour of phenol – formaldehyde/Zn composite coatings obtained by electrodeposition. <i>Journal of optoelectronics and advanced materials</i> . Volume: 11, Issue: 6 Published: 2009, pp. 892-897. ISSN: 1454-4164<br><a href="http://joam.inoe.ro/download.php?idu=1973">joam.inoe.ro/download.php?idu=1973</a><br><a href="http://cat.inist.fr/?aModele=afficheN&amp;cpsidt=21655116">http://cat.inist.fr/?aModele=afficheN&amp;cpsidt=21655116</a>   | -                 | Q3<br>0.588<br>AIS<br>0.169 | RO-12   |



| N <sub>ref</sub> | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)   | Prim autor / P.A. | F.I. / SRI F. I. Cumulat    | I / RO* |
|------------------|---|-------------------|-----------------------------|---------|
| 23               | Felicia Bratu, Lidia Benea, Jean-Pierre Celis.<br><b>The influence of fretting parameters on tribocorrosion behaviour of AISI 304L stainless steel in ringer solution.</b> <i>Revista de Chimie.</i> 59 (3), Published: 2008, p. 346-350. ISSN: 0034-7752.<br><a href="http://www.revistadechimie.ro/pdf/BRADU%20F.pdf">http://www.revistadechimie.ro/pdf/BRADU%20F.pdf</a>       | -                 | Q3<br>1.605<br>AIS<br>0.140 | RO-11   |
| 22               | A. C. Ciubotariu, L. Benea, M. Lakatos–Varsanyi, V. Dragan.<br><b>Electrochemical impedance spectroscopy and corrosion behaviour of Al<sub>2</sub>O<sub>3</sub>-Ni nano composite coatings.</b> <i>Electrochimica Acta.</i> 53 (13), 2008, 4557-4563. ISSN: 0013-4686.<br><a href="https://doi.org/10.1016/j.electacta.2008.01.020">DOI: 10.1016/j.electacta.2008.01.020.</a>     | -                 | Q1<br>5.383<br>AIS<br>1.766 | I - 12  |
| 21               | Felicia Bratu, Lidia Benea, Jean-Pierre Celis.<br><b>Tribocorrosion behaviour of Ni–SiC composite coatings under lubricated conditions.</b> <i>Surface &amp; Coatings Technology.</i> 201, 2007, 6940–6946. ISSN: 0257-8972.<br><a href="https://doi.org/10.1016/j.surfcoat.2006.12.027">DOI: 10.1016/j.surfcoat.2006.12.027.</a>   | -                 | Q1<br>3.192<br>AIS<br>1.464 | I - 11  |
| 20               | A. Berradja, F. Bratu, L. Benea, G. Willems and J.-P. Celis.<br><b>Effect of sliding wear on tribocorrosion behaviour of stainless steels in a Ringer's solution.</b> <i>Wear.</i> Volume 261, Issue 9, 20 November 2006, 987-993. ISSN: 0043-1648.<br><a href="https://doi.org/10.1016/j.wear.2006.03.003">DOI: 10.1016/j.wear.2006.03.003.</a>                                  | -                 | Q1<br>2.950<br>AIS<br>1.687 | I - 10  |
| 19               | Cârâc, G, Benea, L., Iticescu, C., Lampke, T, Steinhäuser, S., Wielage, B.<br><b>Codeposition of cerium oxide with nickel and cobalt: Correlation between microstructure and microhardness.</b> <i>Surface Engineering.</i> Volume 20, Issue 5, October 2004, Pages 353-359. ISSN 0267-0844.<br><a href="https://doi.org/10.1179/026708404X1134">DOI: 10.1179/026708404X1134.</a> | -                 | Q2<br>2.229<br>AIS<br>0.785 | I - 9   |
| 18               | L. Benea, P. Ponthiaux, F. Wenger, J. Galland, D. Hertz, J. Y. Malo.<br><b>Tribocorrosion of stellite 6 in sulphuric acid medium: electrochemical behaviour and wear.</b> <i>Wear,</i> 256, Published: 2004, Issues 9-10, 948-95. ISSN: 0043-1648.<br><a href="https://doi.org/10.1016/j.wear.2003.06.003">DOI: 10.1016/j.wear.2003.06.003</a>                                    | P.A. -<br>11      | Q1<br>2.950<br>AIS<br>1.687 | I - 8   |

| N <sub>ref</sub>   | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)  | Prim autor / P.A. | F.I. / SRI F. I. Cumulat    | I / RO* |
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| 17   | Lidia Benea, Pier Luigi Bonora, Alberto Borello, Stefano Martelli, François Wenger, Pierre Ponthiaux, Jacques Galland. <b>Preparation and investigation of nanostructured SiC-nickel layers by electrodeposition.</b><br><i>Solid State Ionics</i> . vol. 151, no 1-4, 2002, p. 89-95. ISSN: 0167-2738.<br><a href="https://doi.org/10.1016/S0167-2738(02)00586-6">doi:10.1016/S0167-2738(02)00586-6</a> .                       | P.A. - 10         | Q1<br>2.886<br>AIS<br>1.247 | I - 7   |
| 2007 TOP Cited Articles, <a href="http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid-state-ionics/01672738/archive/11/">Physics and Astronomy</a> > Solid State Ionics<br><a href="http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid-state-ionics/01672738/archive/11/">http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid-state-ionics/01672738/archive/11/</a> |  |                   |                             |         |
| 16   | L. Benea, P.L. Bonora, A. Borello, S. Martelli.<br>Effect of SiC size dimensions on the corrosion wear resistance of the electrodeposited composite coating.<br><i>Materials and Corrosion</i> . Volume 53, Issue 1, Published: 2002, ISSN 0947-5117. 23-29.<br><a href="https://doi.org/10.1002/1521-4176(200201)53:1&lt;23::AID-MACO23&gt;3.0.CO;2-0">DOI: 10.1002/1521-4176(200201)53:1&lt;23::AID-MACO23&gt;3.0.CO;2-0</a> . | P.A. - 9          | Q2<br>1.458<br>AIS<br>1.037 | I - 6   |
| 15   | Lidia Benea, Pier Luigi Bonora, Alberto Borello, Stefano Martelli.<br>Wear corrosion properties of nano-structured SiC – nickel composite coatings obtained by electroplating.<br><i>Wear</i> , Volume : 249, 2001 995-1003. ISSN: 0043-1648.<br><a href="https://doi.org/10.1016/S0043-1648(01)00844-4">doi:10.1016/S0043-1648(01)00844-4</a>   | P.A. - 8          | Q1<br>2.950<br>AIS<br>1.687 | I - 5   |
| 14   | Lidia BENEÀ, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND.<br>Composite electrodeposition to obtain nano-structured coatings.<br><i>Journal of The Electrochemical Society</i> . 148 (7), 2001, ISSN: 0013-4651. C 461-C 465.<br><a href="http://dx.doi.org/10.1149/1.1377279">http://dx.doi.org/10.1149/1.1377279</a> .  | P.A. - 7          | Q1<br>3.120<br>AIS<br>1.923 | I - 4   |
| 13   | L. Benea, O. Mitoseriu, J. Galland, F. Wenger, P. Ponthiaux. Corrosion study of copper composite coating by impedance spectroscopy method. <i>Materials and Corrosion</i> . 51, Published: 2000, p. 491-495. ISSN 0947-5117.<br><a href="https://doi.org/10.1002/1521-4176(200007)51:7&lt;491::AID-MACO491&gt;3.0.CO;2-C">DOI: 10.1002/1521-4176(200007)51:7&lt;491::AID-MACO491&gt;3.0.CO;2-C</a> .                             | P.A. - 6          | Q2<br>1.458<br>AIS<br>1.037 | I - 3   |

| $N_{ref}$ | Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$<br>Domeniu ro u (red) filled in rosu (red)<br>Domeniu galben (yellow) filled in galben (yellow)  | Prim autor / P.A. | F.I. / SRI F. I. Cumulat           | I / RO* |
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| 12        | Levcovici, D.T., Munteanu, V., Levcovici, S.M., Mitoseriu, O., Benea, L., Paraschiv, M.M.<br><b>Laser processing of MMC layers on a metal base.</b><br><i>Materials and Manufacturing Processes.</i> (1999) 14 (4), pp. 475-487. ISSN: 10426914.<br><a href="https://doi.org/10.1080/10426919908914844">DOI: 10.1080/10426919908914844</a> . | -                 | <b>Q1</b><br>3.350<br>AIS<br>0.938 | I - 2   |
| 11        | Lidia Benea.<br><b>Electrodeposition of Zirconia Particles in a Copper Matrix.</b><br><i>Materials and Manufacturing Processes</i> , Vol 14, No: 2, Publ. 1999, pp. 231-242. ISSN: 1042-6914.<br>231-242.<br><a href="https://doi.org/10.1080/10426919908914820">DOI: 10.1080/10426919908914820</a> .  | P.A. - 5          | <b>Q1</b><br>3.350<br>AIS<br>0.938 | I - 1   |

(11-49) FI = 127.549

(1-10) FI = 2.394

|    |   |          |                                    |       |
|----|---|----------|------------------------------------|-------|
| 10 | Lidia BENEĂ, Adina – Ionica PAVLOV.<br><b>Ni-TiO<sub>2</sub> nanocomposite coatings as cathode material for hydrogen evolution reaction.</b><br><i>Optoelectronics and Advanced Materials - Rapid Communications.</i> Vol 7 Issue 11-12, 2013, p. 895-899.<br>ISSN: 1842-6573. OPTOELECTRON ADV MAT.<br><a href="http://oam-rc.inoe.ro/index.php?option=magazine&amp;op=list&amp;revid=81">http://oam-rc.inoe.ro/index.php?option=magazine&amp;op=list&amp;revid=81</a> | P.A. - 4 | <b>Q3</b><br>0.452<br>AIS<br>0.067 | RO-10 |
| 9  | E. MARDARE, L. BENEĂ, J.-P. CELIS.<br><b>Importance of applied normal loads on the tribocorrosion behaviour of Ti-6Al-4V alloy in bio-simulated environment.</b><br><i>OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS.</i> Vol. 6, No. 3-4, March - April 2012, p. 474-478. ISSN: 1842-6573.   | -        | <b>Q3</b><br>0.452<br>AIS<br>0.067 | RO-9  |
| 8  | Geta Cârâc, C t lina Iticescu, Lidia Benea, Thomas Lampke and Siegfried Steinhauser. <b>The effect of nano-Al<sub>2</sub>O<sub>3</sub> dispersed phase in nickel matrix electrocodeposited.</b><br><i>Revue Roumaine de Chimie.</i> 52 (11), Published: 2007, pp. 1057–1062. ISSN: 0035-3930.   | -        | <b>Q3</b><br>0.395<br>AIS<br>0.061 | RO-8  |

|   |  |          |                             |      |
|---|--|----------|-----------------------------|------|
| 7 | <b>L. BENEĂ.</b><br><b>Comparative corrosion studies of composite coating by impedance spectroscopy method: 2</b><br><b>Comparative corrosion study of copper and copper zirconia composite coatings in sulphuric acid solution.</b><br><i>Revue Roumaine de Chimie.</i> vol. 45, no 3, Published: 2000, pp. 255 – 261. ISSN: 0035-3930. | P.A. - 3 | Q3<br>0.395<br>AIS<br>0.061 | RO-7 |
| 6 | <b>L. BENEĂ.</b><br><b>Comparative corrosion studies of composite coatings by impedance spectroscopy method. 1.</b><br><b>Theoretical aspects of the impedance spectroscopy method in corrosion studies.</b><br><i>Revue Roumaine de Chimie.</i> Vol : 4 , No: 5 Published: 1999, pp. 439 – 444. ISSN: 0035-3930.                        | -        | Q3<br>0.395<br>AIS<br>0.061 | RO-6 |
| 5 | <b>LIDIA BENEĂ and GETA CARAC.</b><br><b>Obtaining of composite coatings by metal electrodeposition using dispersed particles.</b><br><i>Metallurgy and New Materials Researches.</i> Vol V No 2, 1997, pp. 20-40.   | P.A. - 2 | -                           | RO-5 |
| 4 | <b>LIDIA BENEĂ, O. MITOSERIU AND MAGDA LAKATOS VARSANYI.</b><br><b>Electrodeposition of Zirconium Oxide and Silicon Carbide with Nickel.</b><br><i>STUDIA UNIV. BABES BOLYAI, CHEMIA.</i> 41, 2, 1996, p. 233 – 315.<br><a href="#">ISSN (print): 1224-7154</a>  | P.A. - 1 | Q3<br>0.305<br>AIS<br>0.029 | RO-4 |
| 3 | <b>LIDIA BENEĂ-(ENACHE); I.OVESEA; D. ENACHE,</b><br><b>Cercetari privind electrodepunerea cromului pe benzi din otel laminat la rece.</b><br><i>Metalurgia,</i> 1993, 3, 19-25.   |          | -                           | RO-3 |
| 2 | <b>LIDIA BENEĂ; CLIMANTA GRADINARIU SI C. SANDU.</b><br><b>Cercetari privind electrodepunerea staniului pe otel inoxidabil pentru fabricatia camerelor de ionizare , destinate centralelor nucleare-energetice.</b><br><i>Metalurgia,</i> 1990, 42 (9-12), 427-429.  |          | -                           | RO-2 |
| 1 | <b>I. OVESEA; LIDIA BENEĂ, OLGA MITOSERIU.</b><br><b>Posibilitati de reducere a consumului de zinc în procesul de electrodepunere.</b><br><i>Metalurgia,</i> 1987, 39 (2) , 75-79.   |          | -                           | RO-1 |

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Published papers in ISI Proceeding Volumes**

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|                  |  | 16                      | 43     |
| 43               | <p>L Benea, and N Simionescu.<br/> <b>Corrosion behavior of Ni/WC nano-structured composite layers synthesized by electrochemical method.</b><br/>           IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012004.<br/> <a href="https://doi.org/10.1088/1757-899X/572/1/012004">doi:10.1088/1757-899X/572/1/012004</a></p>   | PA-16                   | I - 43 |
| 42               | <p>N Simionescu, L Benea, and J P Celis.<br/> <b>Wear-corrosion response of Cerium oxide reinforced Cobalt hybrid composite layers in biological solution.</b><br/>           IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012003;<br/> <a href="https://doi.org/10.1088/1757-899X/572/1/012003">doi:10.1088/1757-899X/572/1/012003</a></p>  |                         | I - 42 |
| 41               | <p>L Dragus, L Benea, N Simionescu, A Ravoiu and V Neaga.<br/> <b>Effect of the inflammatory conditions and albumin presence on the corrosion behavior of grade 5 Titanium alloy in saliva biological solution.</b><br/>           IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012005;<br/> <a href="https://doi.org/10.1088/1757-899X/572/1/012005">doi:10.1088/1757-899X/572/1/012005</a></p> |                         | I - 41 |
| 40               | <p>L Mardare and L Benea.<br/> <b>Marine corrosion behavior of EH 36 steel in the Black Sea.</b><br/>           IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012007.<br/> <a href="https://doi.org/10.1088/1757-899X/572/1/012007">doi:10.1088/1757-899X/572/1/012007</a></p>  |                         | I - 40 |
| 39               | <p>A Ravoiu1, N Simionescu and L Benea.<br/> <b>Influence of different concentration of hydrogen peroxide on the corrosion behavior of Ti-6Al-4V alloy immersed in physiological solution.</b><br/>           IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012006.</p>   |                         | I - 39 |

| N <sub>ref</sub> | Articole publicate în volume indexate ISI Proceedings<br>ISI Proceeding Volume   | Prim<br>autor /<br>P.A. | I             |
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| 38               | <b>Lidia Benea.</b><br><b>Electrochemical methods as promising routes for nanostructuration and functionalization of materials and biomaterials.</b><br>Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b> , 24.<br><b>Section Micro and Nano Technologies</b> , 30 June - 9 July, 2018, Albena, Bulgaria, p. 191-198..<br><a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a> .   | <b>PA-15</b>            | <b>I - 38</b> |
| 37               | Valentin Marian Dumitrascu, <b>Lidia Benea</b> , Nicoleta Lucica Simionescu.<br><b>Surfaces morphology, roughness and wetting properties of nanoporous aluminum oxide film formed on 1050 aluminum alloy by controlled electrochemical oxidation.</b><br>Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b> , 24.<br><b>Section Micro and Nano Technologies</b> , 30 June - 9 July, 2018, Albena, Bulgaria, p. 473-480.<br><a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a> . |                         | <b>I - 37</b> |
| 36               | Nicoleta SIMIONESCU, <b>Lidia BENEÀ</b> , Anca RAVOIU.<br><b>Effect of hydrogen peroxide addition to phosphate buffered saline solutions on corrosion resistance of 316l stainless steel</b><br>Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b> , 24.<br><b>Section Micro and Nano Technologies</b> , 30 June - 9 July, 2018, Albena, Bulgaria, p. 169-176.<br><a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a> .  |                         | <b>I - 36</b> |
| 35               | <b>Lidia Benea.</b><br><b>Surface Modifications of Materials by Electrochemical Methods to Improve the Properties for Industrial and Medical Applications.</b><br>IOP Conf. Series: Materials Science and Engineering <b>374</b> (2018) 012014<br><a href="https://doi.org/10.1088/1757-899X/374/1/012014">doi:10.1088/1757-899X/374/1/012014</a>  | <b>PA-14</b>            | <b>I - 35</b> |

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| 34               | V M Dumitrascu, <b>L Benea</b> and N L Simionescu.<br><b>Evaluation of Sealing Process on the Surface Properties of Nanoporous Aluminum Oxide Layers Electrochemically Growth on 1050 Aluminum Alloy Surface.</b><br>IOP Conf. Series: Materials Science and Engineering <b>374</b> (2018) 012013<br><a href="https://doi.org/10.1088/1757-899X/374/1/012013">doi:10.1088/1757-899X/374/1/012013</a> .                               |                         | I - 34 |
| 33               | N Simionescu, <b>L Benea</b> and V M Dumitrascu.<br><b>The Synergistic Effect of Proteins and Reactive Oxygen Species on Electrochemical Behaviour of 316L Stainless Steel for Biomedical Applications.</b><br>IOP Conf. Series: Materials Science and Engineering <b>374</b> (2018) 012058.<br><a href="https://doi.org/10.1088/1757-899X/374/1/012058">doi:10.1088/1757-899X/374/1/012058</a>                                      |                         | I - 33 |
| 32               | A Ravoiiu, <b>L Benea</b> and A Chiriac.<br><b>Metabolic Albumin and Its Effect on Electrochemical Behavior of Titanium Implant Alloy</b><br>IOP Conf. Series: Materials Science and Engineering <b>374</b> (2018) 012077.<br><a href="https://doi.org/10.1088/1757-899X/374/1/012077">doi:10.1088/1757-899X/374/1/012077</a>  |                         | I - 32 |
| 31               | <b>L Benea</b> and E D n il .<br><b>Development of Electrodeposited Zn/nano-TiO<sub>2</sub> Composite Coatings with Enhanced Corrosion Performance.</b><br>International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing<br>IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012014.<br><a href="https://doi.org/10.1088/1757-899X/209/1/012014">doi:10.1088/1757-899X/209/1/012014</a> | PA-13                   | I - 31 |
| 30               | L Mardare and <b>L Benea</b> .<br><b>Development of Anticorrosive Polymer Nanocomposite Coating for Corrosion Protection in Marine Environment.</b><br>International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing<br>IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012056.  |                         | I - 30 |

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| 29               | V Dumitrascu, <b>L Benea,*</b> and E Danaïla.<br><b>Corrosion Behavior of Aluminum Oxide Film Growth by Controlled Anodic Oxidation.</b><br>International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing.<br>IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012016.<br><a href="https://doi.org/10.1088/1757-899X/209/1/012016">doi: 10.1088/1757-899X/209/1/012016</a>  |                         | <b>I - 29</b> |
| 28               | E D n il and <b>L Benea.</b><br><b>The Effect of Normal Force on Tribocorrosion Behaviour of Ti-10Zr Alloy and Porous TiO<sub>2</sub>-ZrO<sub>2</sub> Thin Film Electrochemical Formed.</b><br>International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing<br>IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012015.<br><a href="https://doi.org/10.1088/1757-899X/209/1/012015">doi: 10.1088/1757-899X/209/1/012015.</a>   |                         | <b>I - 28</b> |
| 27               | Anca R voiu, <b>Lidia Benea;</b><br><b>The pH value effect of a simulated physiological solution on the corrosion resistance of Ti-6Al-4V alloy;</b> pp. 419-426.<br>17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17. Nano, bio and green – technologies for a sustainable future, Issue 61, Section Micro and Nano Technologies, 29 June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704.<br><a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a>   |                         | <b>I - 27</b> |
| 26               | Nicoleta Lucica Simionescu, <b>Lidia Benea;</b><br><b>The corrosion behavior of 316l stainless steel in different simulated body fluids solutions;</b> pp. 353-360.<br>17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17. Nano, bio and green – technologies for a sustainable future, Issue 61, Section Micro and Nano Technologies, 29 June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704.<br><a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a> |                         | <b>I - 26</b> |



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| 25               | Valentin Marian Dumitrascu, <b>Lidia Benea</b> , Eliza Danaila;<br><b>Influence of the sealing process on the corrosion performance of nanoporous aluminum oxide</b> ; pp. 171-178.<br>17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17.<br>Nano, bio and green – technologies for a sustainable future, Issue 61, Section Micro and Nano Technologies, 29<br>June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704.<br><a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a> |                         | I - 25 |
| 24               | Laurentiu Mardare, <b>Lidia Benea</b> ;<br><b>Corrosion of architecture and infrastructure elements in Romanian Black Sea littoral area</b> ; pp. 73-80.<br>17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17.<br>Nano, bio and green – technologies for a sustainable future, Issue 62, Section Green Buildings Technologies and<br>Materials, 29 June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704.<br><a href="https://doi.org/10.5593/sgem2017/62">https://doi.org/10.5593/sgem2017/62</a>             |                         | I - 24 |
| 23               | Valentin Dumitrascu, <b>Lidia Benea</b> , Eliza Danaila;<br><b>Characterization of nanoporous aluminum oxide layers obtained by controlled anodic oxidation</b> ; pp. 43-50.<br>17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17.<br>Nano, bio and green – technologies for a sustainable future, Issue 61, Section Micro and Nano Technologies, 29<br>June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704.<br><a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a>        |                         | I - 23 |
| 22               | <b>Lidia Benea</b> ;<br><b>Bio and nanomaterials in tribocorrosion systems.</b><br>Published under licence by IOP Publishing Ltd<br>IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1<br>2017 1757-899X 174 012042<br><a href="http://iopscience.iop.org/1757-899X/174/1/012042">http://iopscience.iop.org/1757-899X/174/1/012042</a><br><a href="https://doi.org/10.1088/1757-899X/174/1/012042">doi:10.1088/1757-899X/174/1/012042</a>  | PA-12                   | I - 22 |

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| 21               | <p><b>L Benea, Eliza D n il and P Ponthiaux;</b><br/> <b>Porous TiO<sub>2</sub>-ZrO<sub>2</sub> thin film formed by electrochemical technique to improve the biocompatibility of titanium alloy in physiological environment.</b><br/>           Published under licence by IOP Publishing Ltd<br/>           IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1<br/>           2017 1757-899X <b>174</b> 012044<br/> <a href="http://iopscience.iop.org/1757-899X/174/1/012044">http://iopscience.iop.org/1757-899X/174/1/012044</a><br/> <a href="https://doi.org/10.1088/1757-899X/174/1/012044">doi:10.1088/1757-899X/174/1/012044</a></p>          | PA-11                   | I - 21 |
| 20               | <p><b>Lidia Benea, Eliza D n il , Pierre Ponthiaux and Jean-Pierre Celis;</b><br/> <b>Improving tribocorrosion behaviour by electro-codeposition of TiC nano-dispersed particles with nickel as hybrid layers for energy applications.</b><br/>           Published under licence by IOP Publishing Ltd<br/>           IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1<br/>           2017 1757-899X <b>174</b> 012045<br/> <a href="http://iopscience.iop.org/1757-899X/174/1/012045">http://iopscience.iop.org/1757-899X/174/1/012045</a><br/> <a href="https://doi.org/10.1088/1757-899X/174/1/012045">doi:10.1088/1757-899X/174/1/012045</a></p> | PA-10                   | I - 20 |
| 19               | <p>L Mardare and <b>L Benea;</b><br/> <b>Development of Anticorrosive Polymer Nanocomposite Coating for Corrosion Protection in Marine Environment.</b><br/>           Published under licence by IOP Publishing Ltd<br/>           IOP Conference Series: Materials Science and Engineering, Volume 209, conference 1.<br/>           2017 1757-899X <b>209</b> 012056<br/> <a href="http://iopscience.iop.org/1757-899X/209/1/012056">http://iopscience.iop.org/1757-899X/209/1/012056</a><br/> <a href="https://doi.org/10.1088/1757-899X/209/1/012056">doi:10.1088/1757-899X/209/1/012056</a></p>   |                         | I - 19 |
| 18               | L. BENEÀ, V.M. DUMITRASCU   | PA-9                    | I - 18 |

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|                  | <p><b>Hybrid Composite Layers Obtained by Electro-codeposition: Challenges – Results and Future Applications.</b><br/> <b>NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM, 2016, VOL I, <i>Micro and Nano Technologies, Advances in Biotechnology</i>, pp. 151-158, ISBN 978-619-7105-68-1 / ISSN 1314-2704.</b><br/> <b>Book Series:</b> International Multidisciplinary Scientific GeoConference-SGEM.<br/> <b>Pages:</b> 151-158.<br/> <b>Published:</b> 2016.<br/> <b>Conference:</b> 16th International Multidisciplinary Scientific Geoconference (SGEM 2016).<br/> <b>Location:</b> Albena, BULGARIA<br/> <b>Date:</b> JUN 30-JUL 06, 201<br/> <a href="https://doi.org/10.5593/SGEM2016/B61/S24.020">DOI: 10.5593/SGEM2016/B61/S24.020</a><br/> <a href="http://www.sgem.org/sgemlib/spip.php?article7674">http://www.sgem.org/sgemlib/spip.php?article7674</a><br/> <b>WOS:000391648800020</b></p>                              |                         |        |
| 17               | <p>M. LAURENTIU, L. BENEÀ, V. DUMITRASCU<br/> <b>Behavior of Naval Steel with Polymer Protective Coatings in Ses Water.</b><br/> <b>NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM. 2016, VOL II, <i>Green Buildings Technologies and Materials, Green Design and Sustainable Architecture</i>, pp. 49-56, ISBN 978-619-7105-69-8 / ISSN 1314-2704.</b><br/> <b>Book Series:</b> International Multidisciplinary Scientific GeoConference-SGEM<br/> <b>Pages:</b> 49-56.<br/> <b>Published:</b> 2016<br/> <b>Conference:</b> 16th International Multidisciplinary Scientific Geoconference (SGEM 2016)<br/> <b>Location:</b> Albena, BULGARIA.<br/> <b>Date:</b> JUN 30-JUL 06, 2016<br/> <a href="https://doi.org/10.5593/SGEM2016/B62/S26.007">DOI: 10.5593/SGEM2016/B62/S26.007</a><br/> <a href="http://sgem.org/sgemlib/spip.php?article7989">http://sgem.org/sgemlib/spip.php?article7989</a><br/> <b>WOS:000391650000007</b></p> |                         | I - 17 |
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| 15               | <p>V. M. DUMITRASCU, L. BENEÀ, L. MARDARE.<br/><b>Influence of Anodizing Voltage on the Morphology and Corrosion Resistance of 1050 Aluminum Alloy.</b><br/>NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM 2016, VOL I, <i>Micro and Nano Technologies, Advances in Biotechnology</i>, pp. 167-174, ISBN 978-619-7105-68-1 / ISSN 1314-2704.<br/><b>Book Series:</b> International Multidisciplinary Scientific GeoConference-SGEM.<br/><b>Pages:</b> 167-174<br/><b>Published:</b> 2016<br/><b>Conference:</b> 16th International Multidisciplinary Scientific Geoconference (SGEM 2016)<br/><b>Location:</b> Albena, BULGARIA<br/><b>Date:</b> JUN 30-JUL 06, 2016<br/><a href="https://doi.org/10.5593/SGEM2016/B61/S24.022">DOI: 10.5593/SGEM2016/B61/S24.022</a><br/><a href="http://www.sgem.org/SGEMLIB/spip.php?article7680">http://www.sgem.org/SGEMLIB/spip.php?article7680</a><br/><b>WOS:000391648800022</b></p> |                         | I - 15 |
| 14               | <p><b>Lidia BENEÀ.</b><br/><b>Bio and nanomaterials in tribocorrosion systems.</b><br/>13th International Conference on Tribology, ROTRIB'16.<br/>IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012042.<br/>12 pages.<br/><b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b><br/><b>Book Series:</b> IOP Conference Series-Materials Science and Engineering</p>  | PA-8                    | I - 14 |

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| 13               | <b>Lidia BENEÀ, Eliza D N IL , Pierre PONTIAUX, Jean-Pierre CELIS.</b><br><b>Improving tribocorrosion behaviour by electro-codeposition of TiC nanodispersed particles with nickel as hybrid layers for energy applications.</b><br>13th International Conference on Tribology, ROTRIB'16.<br>IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012045.<br>8 pages.<br><b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b><br><b>Book Series:</b> IOP Conference Series-Materials Science and Engineering<br><b>Volume:</b> 174<br><b>Article Number:</b> UNSP 012045<br><b>DOI:</b> <a href="https://doi.org/10.1088/1757-899X/174/1/012045">10.1088/1757-899X/174/1/012045</a><br><b>Published:</b> 2017.<br><a href="https://doi.org/10.1088/1757-899X/174/1/012045">doi:10.1088/1757-899X/174/1/012045</a><br><a href="http://www.rotrib16.ugal.ro/">www.rotrib16.ugal.ro/</a><br><b>WOS:000399753500045</b> | PA-7                    | I - 13 |
| 12               | <b>Lidia BENEÀ, Eliza D N IL , Pierre PONTIAUX.</b><br><b>Porous TiO<sub>2</sub>-ZrO<sub>2</sub> thin film formed by electrochemical technique to improve the biocompatibility of titanium alloy in physiological environment.</b><br>13th International Conference on Tribology, ROTRIB'16.<br>IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012044.<br>6 pages.<br><b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b><br><b>Book Series:</b> IOP Conference Series-Materials Science and Engineering<br><b>Volume:</b> 174  | PA-6                    | I - 12 |

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| 11               | <p><b>Lidia BENEÀ</b>, Eliza D N IL , Valentin Marian DUMITRA CU, Pierre PONTIAUX.<br/> <b>The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated physiological solution.</b><br/> <b>Paper ID 60,</b><br/> <i>E-Health and Bioengineering - EHB 2015.</i><br/>           IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.<br/> <a href="http://www.ehbconference.ro/Submission.aspx">http://www.ehbconference.ro/Submission.aspx</a><br/> <a href="https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971">https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971</a></p> <p><b>2015 E-Health and Bioengineering Conference (EHB)</b><br/> <a href="https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716">https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716</a><br/>           Denumire conferin :<br/> <b>Challenging Issues for Health and Biomedical Technologies.</b><br/> <i>E-Health and Bioengineering Conference (EHB).</i><br/> <b>Indexed in:</b><br/>           IEEE Xplore® data base,<br/>           Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases.<br/> <b>DOI:</b> <a href="https://doi.org/10.1109/EHB.2015.7391574">10.1109/EHB.2015.7391574</a><br/> <b>Accession Number:</b> <b>WOS:000380397900227</b></p> | PA-5                    | I - 11 |
| 10               | <p>Eliza D N IL , <b>Lidia BENEÀ</b>, Pierre PONTIAUX.<br/> <b>Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure Co coatings in a simulated physiological solution.</b><br/> <b>Paper ID 61.</b><br/> <i>E-Health and Bioengineering - EHB 2015.</i></p>  |                         | I - 10 |

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| 9                | <p><b>3. Eliza D N IL , Lidia BENEÀ.</b><br/> <b>The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution.</b><br/> <b>Paper ID 277.</b><br/> <i>E-Health and Bioengineering - EHB 2015.</i><br/> IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.<br/> <a href="http://www.ehbconference.ro/Submission.aspx">http://www.ehbconference.ro/Submission.aspx</a><br/> <a href="https://easychair.org/conferences/submission.cgi?track=138896;submission=2518923;a=9821051">https://easychair.org/conferences/submission.cgi?track=138896;submission=2518923;a=9821051</a></p> <p><b>2015 E-Health and Bioengineering Conference (EHB)</b><br/> <a href="https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716">https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716</a><br/> Denumire conferin :<br/> <b>Challenging Issues for Health and Biomedical Technologies.</b><br/> <i>E-Health and Bioengineering Conference (EHB).</i><br/> <b>Indexed in:</b><br/> IEEE Xplore® data base,</p>                           |                         | I - 9 |

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| 8                | <p><b>Lidia BENEÀ,</b><br/> <b>Nanocomposite layers obtained by electro-co-deposition: Corrosion and tribocorrosion properties.</b> ISI Proceeding: Special issue of <a href="#">Solid State Phenomena – Corrosion and Surface Engineering</a>. Proceedings of International Scientific Conference CORROSION 2014, 18 – 21 November 2014, Gliwice, Poland, p. 1-4. (în curs de publicare). ISSN: 1662-9779. Editura: TRANS TECH PUBLICATIONS, Materials Science and Engineering.</p> <p><b>Indexed:</b> SCOPUS <a href="http://www.scopus.com">www.scopus.com</a> and Ei Compendex (CPX) <a href="http://www.ei.org/">www.ei.org/</a>. Cambridge Scientific Abstracts (CSA) <a href="http://www.csa.com">www.csa.com</a>, Chemical Abstracts (CA) <a href="http://www.cas.org">www.cas.org</a>, Google and Google Scholar <a href="http://google.com">google.com</a>, ISI (ISTP, CPCI, Web of Science) <a href="http://www.isinet.com">www.isinet.com</a>, Institution of Electrical Engineers (IEE) <a href="http://www.iee.org">www.iee.org</a>, etc.</p> <p>DOI <a href="https://doi.org/10.4028/www.scientific.net/SSP.227.243">10.4028/www.scientific.net/SSP.227.243</a></p>                                       | P.A. - 4                | I - 8 |
| 7                | <p>Eliza DANAILA, <b>Lidia BENEÀ</b>, Iulian BOUNEGRU,<br/> <b>Corrosion behavior of novel hybrid Co/UHMWPE composite biocoating with applications as biomaterials.</b> ISI Proceedings: Special issue of <a href="#">Solid State Phenomena – Corrosion and Surface Engineering</a>. Proceedings of International Scientific Conference CORROSION 2014, 18 – 21 November 2014, Gliwice, Poland. p. 1-4. (în curs de publicare). ISSN: 1662-9779. Editura: TRANS TECH PUBLICATIONS, Materials Science and Engineering.</p> <p><b>Indexed:</b> SCOPUS <a href="http://www.scopus.com">www.scopus.com</a> and Ei Compendex (CPX) <a href="http://www.ei.org/">www.ei.org/</a>. Cambridge Scientific Abstracts (CSA) <a href="http://www.csa.com">www.csa.com</a>, Chemical Abstracts (CA) <a href="http://www.cas.org">www.cas.org</a>, Google and Google Scholar <a href="http://google.com">google.com</a>, ISI (ISTP, CPCI, Web of Science) <a href="http://www.isinet.com">www.isinet.com</a>, Institution of Electrical Engineers (IEE) <a href="http://www.iee.org">www.iee.org</a>, etc.</p> <p>DOI: <a href="https://doi.org/10.4028/www.scientific.net/SSP.227.507">10.4028/www.scientific.net/SSP.227.507</a></p> |                         | I - 7 |
| 6                | <p><b>Benea, Lidia;</b> Danaila, Eliza ; Celis, Jean-Pierre.<br/> <b>Influence of contact frequencies on corrosion behavior of Ti-6Al-4V alloy during fretting in physiological solution.</b> <i>E-Health and Bioengineering Conference (EHB)</i>, 2013, pp. 1-4, 2013.</p> <p><b>Digital Object Identifier :</b> <a href="https://doi.org/10.1109/EHB.2013.6707420">10.1109/EHB.2013.6707420</a></p>  | P.A. - 3                | I - 6 |



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|                  | <p><b>Print ISBN:</b> 978-1-4799-2372-4<br/>           Book Group Author(s): IEEE<br/>           Conference: 4th IEEE International Conference on E-Health and Bioengineering (EHB) Location: Iasi, ROMANIA Date: NOV 21-23, 2013. Sponsor(s): IEEE; IEEE EMB Romania Chapter; Romanian Acad Iasi Branch, Inst Comp Sci<br/>           2013 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Published: 2013<br/> <a href="http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6707420&amp;abstractAccess=no&amp;userType=inst">http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6707420&amp;abstractAccess=no&amp;userType=inst</a><br/> <b>WOS:000346672900188</b></p>  |                         | I     |
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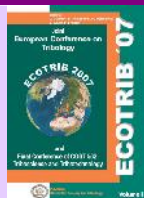
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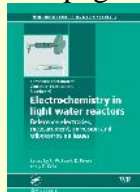
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- Introduction
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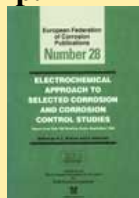
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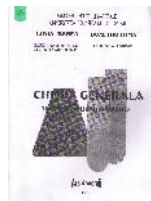
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**Electrochemical techniques applied to surface modifications of materials to improve the properties for industrial and medical applications.**  
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**Tribocorrosion issues in industrial and biomedical applications of materials.**  
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Oral presentation.

260 **Section 3: Functional Materials & Nanotechnologies**, O.P. 3.5, pg. 45 – Book of Abstract.

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Doru MATEI, Lidia BENEĂ.

**Electrochemical studies of zinc electrodeposition on mild steel.**

Oral presentation.

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**The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution.**  
<http://www.ehbconference.ro/Program.aspx>  
Oral presentation at The *5<sup>th</sup> IEEE International Conference on E-Health and Bioengineering - EHB 2015*, Universitatea de Medicin i Farmacie Grigore T. Popa, Ia i, 19 – 21 Noiembrie 2015, Ia i, Romania.  
<http://www.ehbconference.ro/>
- 257 **2015:** Lidia BENEĂ, Eliza D N IL , Valentin Marian DUMITRA CU, Pierre PONTTHIAUX.  
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- 255 **2015:** Eliza D N IL , Lidia BENEĂ, Jean-Pierre CELIS.  
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Oral presentation at The *3<sup>rd</sup> International Conferance of Young Researchers - New Trends in Environmental and Material Engineering - TEME 2015*, 21 - 23 Octombrie 2015, Universitatea "Dun rea de Jos,, din Gala i, România.  
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- 247** **2015: Eliza D N IL , Lidia BENEĂ, Pierre PONTTHIAUX, Nadège CARON, Olivier RAQUET. Advanced coatings for energy applications – Improving tribocorrosion behaviour by electro-codeposition of TiC nano – dispersed particles with nickel matrix.**  
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- 246** **2015: Lidia BENEĂ, Eliza D N IL .**  
**Electrochemical codeposition of UHMWPE biopolymer into cobalt matrix for biomedical applications.**  
Oral presentation at  
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<http://www.if.ugal.ro/PPE2015/Program.htm>  
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- 245** **2015: Laurențiu MARDARE, Lidia BENEĂ, Valentin DUMITRA CU, Eliza D N IL .**  
**Polymeric coatings used against marine corrosion of naval steel EN32,**  
Oral presentation at  
**Symposium 3, Session 2: Polymers, Functional Surface and Interfaces II, PPE2015-35.**  
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- 244** **2015: Alina Crina CIUBOTARIU, Lidia BENEĂ, Pierre PONTTHIAUX.**  
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**Symposium 3, Session 2: Polymers, Functional Surface and Interfaces II, PPE2015-34.**  
<http://www.if.ugal.ro/PPE2015/Program.htm>  
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- 243** **2015: Lidia BENEĂ, Eliza D N IL , Pierre PONTTHIAUX.**  
**„Tribocorrosion performances of Co/nano-CeO<sub>2</sub> bio-coatings in physiological**

solutions”

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**Session: Tribocorrosion**, pg. 35 – Scientific Programme.

[http://eurocorr2015.org/downloads/Eurocorr2015\\_Programme.pdf](http://eurocorr2015.org/downloads/Eurocorr2015_Programme.pdf)

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<http://eurocorr2015.org/>

**2015: Lidia BENEÀ, Pierre PONTTHIAUX, Eliza D N IL , Nadege CARON, Olivier RAQUET.**

**“Wear-corrosion performance of Ni/WC nano-structured composite coatings obtained by electrochemical deposition”.**

**242 Oral presentation at**

**Session: Nuclear Corrosion**, pg. 49 – Scientific Programme.

[http://eurocorr2015.org/downloads/Eurocorr2015\\_Programme.pdf](http://eurocorr2015.org/downloads/Eurocorr2015_Programme.pdf)

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**2015: Lidia BENEÀ, Eliza D N IL , Iulian BOUNEGRU.**

**“Electrochemical behavior of cobalt–chromium alloy as biomaterial in different pH environments”**

**241 Poster presentation at**

**Session: Materials in research**, pg. 208 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatscitech.com/index.php/scientific-program>

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<http://www.smatscitech.com/>

**2015: Valentin Marian DUMITRA CU, Lidia BENEÀ, Eliza D N IL .**

**“Vegetable extracts as inhibitors of carbon steel corrosion in acidic environment”**

**240 Poster presentation at**

**Session: Materials in research**, pg. 69 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatscitech.com/index.php/scientific-program>

International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.

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**2015: Lidia BENEÀ, Eliza D N IL , Iulian BOUNEGRU.**

**„Characterization and corrosion-resistance of hybrid Co/UHMWPE composite biocoatings”**

**239 Oral presentation at**

**Session: Materials in research**, pg. 68 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatscitech.com/index.php/scientific-program>

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**238 2015: Eliza D N IL , Lidia BENEÀ.**

**“Comparative tribocorrosion resistance in physiological solution of untreated and modified Ti-6Al-4V alloy surface by electrodeposition of hydroxyapatite coatings into nanoporous titania layers”**

Oral presentation at

Session: **Materials in research**, pg. 70 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatscitech.com/index.php/scientific-program>

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**2015 Lidia BENEÀ, Eliza D N IL , Valentin DUMITRA CU.**

**“Influence of electro-codeposition parameters on tio<sub>2</sub> nanoparticles inclusion into nickel matrix: structure, morphology and corrosion resistance”.**

237 Oral presentation at

15th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania on 2-4, July, 2015.

<http://www.ibwap.ro/2015/>

<http://www.ibwap.ro/2015/articles/program>

**2015 Lidia BENEÀ, Eliza D N IL , Nadège CARON, Olivier RAQUET**

**“Fretting-corrosion behavior of ni/wc hybrid coating system fabricated by electrodeposition”**

236 Oral presentation at

15th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania on 2-4, July, 2015.

<http://www.ibwap.ro/2015/>

<http://www.ibwap.ro/2015/articles/program>

**2015: Lidia BENEÀ, Eliza D N IL , Iulian BOUNEGRU.**

**„Nanoporous TiO<sub>2</sub> thin layer formed by electrochemical methods on titanium alloy to improve the corrosion resistance of implants in physiological solutions”.**

Session: *Nanotechnologies and health*.

235 Poster ID: 2D-207.

**7<sup>th</sup> EuroNanoForum Conference**, 10 – 12 Iunie 2015, Riga, Letonia.

<http://www.euronanoforum2015.eu>

[http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract\\_Benea.pdf](http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Benea.pdf)

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**2015: Eliza D N IL , Lidia BENEÀ, Valentin DUMITRA CU, Pierre PONTIAUX.**  
**“Effects of nano-TiC content on morphology, hardness and tribological properties of Ni/TiC nanocomposite coatings”**

Session: *Modelling and characterisation at nanoscale*.

234 Poster ID: 1B-113

**7<sup>th</sup> EuroNanoForum Conference**, 10 – 12 Iunie 2015, Riga, Letonia.

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**2015: Eliza D N IL , Lidia BENEÀ, Iulian BOUNEGRU, Pierre PONTIAUX, Jean Pierre CELIS.**

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**“Imporance of tribocorrosion in biomedical applicatios: Overview and some results.**  
**Oral presentation at Session 3 & UGALnano5: Functional Materials &**

**Nanotechnologies”**

Scientific Conference organized by the Doctoral Schools of “Dun rea de Jos” University of Galați (CSSD-UDJG 2015), Third Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 4 - 5 Iunie 2015, Galați, România.

O.P. 3.3, pg. 76 – Book of Abstract.

<http://www.cssd-udjg.ugal.ro/index.php/abstracts>

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**2015: Iulian BOUNEGRU, Lidia BENEĂ, Eliza D N IL , Alexandru CHIRIAC. “Electrodeposition of chitosan thin films on nanoporous titanium surface for biomedical applications”.**

**Oral presentation at Session 3 & UGALnano5: Functional Materials & Nanotechnologies**

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**2015 Valentin Marian DUMITRA CU, Lidia BENEĂ, Eliza D N IL . “Electrodeposition of nanocomposite coatings – advantages and challenges”.**

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**2015: Lidia BENEĂ, Eliza DANAILA, Iulian BOUNEGRU.**

**“Nanoporous TiO<sub>2</sub> thin layer formed by electrochemical methods to improve the surface properties of titanium alloy in bio-simulated solutions”**

Poster presented at 5<sup>th</sup> Virtual Nanotechnology Poster Conference, Budapest, Hungary, 13 – 19 Aprilie 2015, P15-30.

<http://www.nanopaprika.eu/group/nanoposter/page/p15-30>

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**2014: Lidia BENEĂ,**

**Nanocomposite layers obtained by electro-co-deposition: Corrosion and tribocorrosion properties,**

**Keynote lecture at International Scientific Conference CORROSION 2014, Session 1,**

18 – 21 November 2014, Gliwice, Poland.  
<http://www.corrosion2014.polsl.pl/index.php?lang=en>

- 228 **2014: Lidia Benea**, Sorin–Bogdan BA A, Nadège CARON, Pierre PONTTHIAUX, Jean Pierre CELIS,  
“Fretting – corrosion behavior of Ni/WC nanocomposite coatings in boric acid and lithium hydroxide solution.  
Oral presentation at **International Scientific Conference CORROSION 2014, Session 1**, 18 – 21 November 2014, Gliwice, Poland.  
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- 227 **2014: Eliza D N IL** , **Lidia BENEÀ**, Jean Pierre CELIS.  
“Corrosion–wear behavior of nanoporous oxide film formed on Ti–6Al–4V alloy in physiological solution “,  
Oral presentation at International Scientific Conference CORROSION 2014, Session 1, 18 – 21 November 2014, Gliwice, Poland.  
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- 226 **2014: Bogdan–Sorin BA A, Lidia BENEÀ**, Eliza D N IL .  
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Poster presentation at International Scientific Conference CORROSION 2014, Session 2, 18 – 21 November 2014, Gliwice, Poland. Poster ID: TH-47.  
<http://www.corrosion2014.polsl.pl/index.php?lang=en>

- 225 **2014: Lidia Benea:**  
“Studying tribocorrosion processes in biomedical and industrial applications.  
Oral presentation at **8th International Conference on Tribology Balkantrib`14, Session: Tribochemistry** (Tchem), 30 October – 1 November 2014, Sinaia, România, pg. 91, Book of Abstracts.  
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<http://balkantrib.upg-ploiesti.ro/>

- 224 **2014: Bogdan–Sorin BA A, Lidia BENEÀ**, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean Pierre CELIS.  
**Tribocorrosion behavior of Ni/TiC nanocomposite coatings in solution simulating the corrosion environment for nuclear primary cooling systems.**  
Oral presentation at **8th International Conference on Tribology – Balkantrib`14, Session: Surface Engineering (SE)**, 30 October – 1 November 2014, Sinaia, România, pg. 149, Book of Abstracts. ISBN: 978–973–719–571–5.  
<http://balkantrib.upg-ploiesti.ro/>

- 223 **2014: Eliza D N IL** , **Lidia BENEÀ**.  
“Tribo– electrochemical characterization of Ti–6Al–4V alloy and nanoporous TiO<sub>2</sub> layer in simulated body fluid solution”,  
Oral presentation at **8th International Conference on Tribology Balkantrib`14, Session: Tribochemistry** (Tchem), 30 October – 1 November 2014, Sinaia, România, pg. 96, Book of Abstracts,  
ISBN: 978–973–719–571–5.  
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- Electrochemical synthesis of Ni/nano TiO<sub>2</sub> layers and properties investigations, Oral presentation at 30th European Conference on Surface Science ECOSS 30,** Session: Bio–Surfaces + Self–Assembled Monolayers (BIO+SAM), Title index: BIO + SAM O – 44 Th – E15 – 679, pg 458 – Book of Abstracts, 31 August–05 September 2014, Antalya, Turkey.  
<http://ecoss2014.org/>
- 221 2014: Lidia BENEĂ, Pierre PONTIAUX.**  
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- 220 2014: Eliza D N IL , Lidia BENEĂ, Iulian BOUNEGRU.**  
“Influence of the anodic nanoporous oxide film on the corrosion resistance of Ti – 6Al – 4V alloy in physiological solution,  
**30th European Conference on Surface Science ECOSS 30,** Session: Bio–Surfaces + Self–Assembled Monolayers (BIO+SAM), Poster ID: BIO + SAM P-277 Tu–659, pg 495 – Book of Abstracts, 31 August–05 September 2014, Antalya, Turkey.  
[http://ecoss2014.org/..](http://ecoss2014.org/)
- 219 2014: Alina CIUBOTARIU, Lidia BENEĂ,**  
“Challenges and achievements in new composite coatings materials obtained by electro – codeposition – from micro to nano particles reinforcements”,  
**Oral presentation at 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization, NanoSurf 03/2014** jointly with PERFORM, 23 – 25 July 2014, Gala i, România.  
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- 218 2014: Eliza D N IL , Lidia BENEĂ.**  
“Titanium alloy – Electrochemical methods to improve surface properties for biomedical applications”, **Oral presentation at 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization, NanoSurf 03/2014** jointly with PERFORM, 23 – 25 July 2014, Gala i, România.  
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- 217 2014: Iulian BOUNEGRU, Eliza D N IL , Lidia BENEĂ.**  
“Hybrid coatings – news from chitosan electrodeposition,  
**Oral presentation at 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization”, NanoSurf 03/2014** jointly with PERFORM, 23 – 25 July 2014, Gala i, România.  
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- 216 2014: Lauren iu MARDARE, Doina PÎRVU (NEAGU), Eliza D N IL , Lidia BENEĂ.**

- Nothing stays the same for ever: The environmental degradation and corrosion of materials – applications and protection methods in marine media.**  
**Oral presentation at 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization, NanoSurf 03/2014** jointly with PERFORM, 23 – 25 July 2014, Gala i, România.  
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- 215** **2014: Lidia BENEĂ, Eliza D N IL , Pierre PONTIAUX, Jean Pierre CELIS.**  
**“Impact of material degradation on society, environment and health,**  
**Oral presentation at Vth Edition of International Conference UgalMat 2014 from Dun rea de Jos University of Gala i, Section I – Advanced Technologies and Materials (TMA), 29 – 30 May 2014, Gala i, România.**  
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**Oral presentation at VI-th Edition of International Conference UgalMat 2014 from Dun rea de Jos University of Gala i, Section I – Advanced Technologies and Materials (TMA), 29 – 30 May 2014, Gala i, România.**  
<http://www.artcast.ugal.ro/>
- 213** **2014: Eliza D N IL , Lidia BENEĂ,**  
**“Challenges in corrosion protection using vegetables extract as inhibitors”,**  
**Oral presentation at Vth Edition of International Conference UgalMat 2014 from Dun rea de Jos University of Gala i, Section I – Advanced Technologies and Materials (TMA), 29 – 30 May 2014, Gala i, România.**  
<http://www.artcast.ugal.ro/>
- 212** **2014: Iulian BOUNEGRU, Eliza D N IL , Lidia BENEĂ, Alexandru CHIRIAC.**  
**“Improving biocompatibility of Co–Cr alloy used in dentistry by surface modification with electrochemical methods”,**  
**Oral presentation at Vth Edition of International Conference UgalMat 2014 from Dun rea de Jos University of Gala i, Section I – Advanced Technologies and Materials (TMA), 29 – 30 May 2014, Gala i, România.**  
<http://www.artcast.ugal.ro/>
- 211** **2014: Lauren iu MARDARE, Lidia BENEĂ.**  
**“Degradation of materials in specific saline environments with temperature differences and prevention methods,**  
**Conferin a tiin ific a colilor Doctorale din Universitatea Dun rea de Jos din Gala i – Edi ia a II–a, Sec iunea 3 – Materiale Func ionale i Nanotehnologii**  
**(Scientific Conference of Doctoral Schools from Dun rea de Jos University of Gala i – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Gala i, România.**  
P.O.3.6.  
<http://www.cssd-udjg.ugal.ro/>
- 210** **2014: Doina NEAGU – PÎRVU, Lidia BENEĂ**  
**“Aspects of materials degradation unde chemical attack from the leachate treatment plant of the Tirighina waste landfill”,**  
**Prezentare orală la Conferin a tiin ific a colilor Doctorale din Universitatea**



- Dun rea de Jos din Gala i – Edi ia a II–a, Sec iunea 3 – Materiale Func ionale i Nanotehnologii** (Scientific Conference of Doctoral Schools from Dun rea de Jos University of Gala i – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Gala i, P.O.3.7.  
<http://www.cssd-udjg.ugal.ro/>
- 209** **2014: Iulian BOUNEGRU, Lidia BENEĂ, Alexandru CHIRIAC.**  
"Hybrid inorganic – organic nanocomposite coatings obtained by chitosan electrodeposition",  
**Prezentare orală la Conferin a tiin ific a colilor Doctorale din Universitatea Dun rea de Jos din Gala i – edi ia a II–a, Sec iunea 3 – Materiale Func ionale i Nanotehnologii** (Scientific Conference of Doctoral Schools from Dun rea de Jos University of Gala i – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Gala i, România.  
P.O. 3.2.  
<http://www.cssd-udjg.ugal.ro/>
- 208** **2014: Doru MATEI, Lidia BENEĂ.**  
"Current status of research in functional nanocomposites coatings (films) obtained by electrochemical methods and their applications",  
Poster presented at Conferin a tiin ific a colilor Doctorale din Universitatea Dun rea de Jos din Gala i – Edi ia a II–a, Sec iunea 3 – Materiale Func ionale i Nanotehnologii (Scientific Conference of Doctoral Schools from Dun rea de Jos University of Gala i – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Gala i, România.  
**P.P.3.**  
<http://www.cssd-udjg.ugal.ro/>
- 207** **2013: Lidia BENEĂ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS.**  
"Influence of electro-co-deposition parameters on TiO<sub>2</sub> nanoparticles inclusion into nickel matrix, structure and morphology".  
Poster presented at: International conference **NanotechITALY 2013** – Key enabling technologies for responsible innovation, New Materials and Processes; Manufacturing and Nanofabrication - session, 27 – 29 Noiembrie 2013, Vene ia, Italia.
- 206** **2013: Eliza MARDARE – D N IL , Lidia BENEĂ, Iulian BOUNEGRU.**  
"Controlled Growth of Nanoporous TiO<sub>2</sub> Oxide Layer as Support for Hydroxyapatite Electrodeposition on Ti-6Al-4V Alloy".  
Poster presented at: International Conference **NanotechITALY 2013** – Key enabling technologies for responsible innovation, Session - New Materials and Processes; Manufacturing and Nanofabrication, 27 – 29 Noiembrie 2013, Vene ia, Italia.
- 205** **2013: Lidia BENEĂ, Eliza D N IL , Jean-Pierre CELIS.**  
"Influence of Contact Frequencies on Corrosion Behavior of Ti-6Al-4V Alloy during Fretting in Physiological Solution"  
IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21 – 23 Noiembrie 2013, Universitatea de Medicin i Farmacie „Gr. T. Popa” Ia i, Romania.
- 204** **2013: Marilena PRALEA – MARDARE, Lidia BENEĂ, Eliza D N IL , Iulian BOUNEGRU**  
"Effect of Electroplating Parameters on UHMWPE Co-deposition into Cobalt

**Matrix''**

IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21 - 23 Noiembrie 2013, Universitatea de Medicin i Farmacie "Gr. T. Popa" Ia i, Romania.

- 203 **2013: Vlad-Gabriel VASILESCU, Lidia BENEÀ, Elisabeta VASILESCU, Eliza D N IL .**  
**''In vitro evaluation of the electrochemical corrosion behaviour of cobalt – chromium orthodontic alloy under physiological conditions at different pH''.**  
 Poster la The second international conference of young researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

- 202 **2013: Alina Ciubotariu, Lidia Benea, Pierre Ponthiaux, Francois Wenger**  
**''Effect of mean diameter size of disperse phase on morphology and corrosion resistance of phenol –formaldehyde resin /Zn coatings''.**  
 Comunicare la: The Second International Conference of Young Researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

- 201 **2013: Lidia BENEÀ, Marilena MARDARE (PRALEA).**  
**'Effects of UHMWPE inclusion on the surface morphology and corrosion resistance of Co/UHMWPE hybrid biocoatings''.**  
 Comunicare la: The Second International Conference of Young Researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

- 200 **2013: Andrei Mihai CHIRIAC, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS.**  
**'Codeposition of TiC particles into nickel matrix for self-lubricant nanocomposite coatings''.** Comunicare la : The Second International Conference of Young Researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

- 189 **2013: Iulian BOUNEGRU, Lidia BENEÀ, Eliza D N IL , Alexandru CHIRIAC.**  
**'' Properties and biomedical applications of chitosan''.**  
 Comunicare la: The Second International Conference of Young Researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

- 188 **2013: Sorin Bogdan BA A, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS.**  
**'' Electrochemical synthesis and characterization of Ni/WC nanocomposite layers''.**  
 Comunicare la: The Second International Conference of Young Researchers "New trends in environmental and materials engineering" (TEME), 28 - 30 Octombrie 2013, Gala i, Romania

- 14/187 **2013: Lidia BENEÀ, Adina PAVLOV, Eliza D N IL , Nadège CARON, Olivier RAQUET.**  
**''Synthesis of nanostructured Ni-TiO<sub>2</sub> layers and their effective electrocatalytic properties''.**  
 Comunicare la The second international conference of young researchers "New trends in

environmental and materials engineering” (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

**2013: Lidia Benea:**

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**“Recent research and development in electrodeposition of nanocomposite layers and nanostructures”**

Comunicare la The second international conference of young researchers “New trends in environmental and materials engineering” (TEME), 28 - 30 Octombrie 2013, Gala i, Romania.

**2013: Andrei Mihai CHIRIAC, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTIAUX, Jean-Pierre CELIS.**

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**“Fabrication of Ni-TiC Hard Nanocomposite Layers by Electro-co-deposition Process and Study of Its Characteristics”**

Comunicare la First International Conference Danube - Black Sea 3E - Energy, Environment & Efficiency, 18 - 21 Septembrie 2013, Gala i, Romania.

**2013: Sorin Bogdan BA A, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTIAUX, Jean-Pierre CELIS.**

11/184

**” Electroplating of Ni-WC Nanocomposite Coatings for Improving Corrosion and Wear Resistance of Steel Surfaces”**

First International Conference Danube - Black Sea 3E - Energy, Environment & Efficiency, 18 - 21 Septembrie 2013, Gala i, Romania.

**2013: Lidia Benea:**

**”Nanocomposite coatings for improving the corrosion and wear resistance of surfaces.,**

10/183

Comunicare la IVC-19 / ICN+T 2013 and partner conferences (19th International Vacuum Congress (IVC-19), International Conference on Nanoscience and Technology (ICN+T 2013), 15th International Conference on Solid Surfaces (ICSS-15), Innovations in Thin Film Processing and Characterisation (ITFPC 2013), Magnetron, Ion processing & Arc Technologies European Conference (MIATEC 2013), 19th International Colloquium on Plasma Processes (CIP 2013), Reactive Sputter Deposition (RSD 2013)), Sesiunea: Nanostructured Protective Coatings (Joint with ITFPC 2013), Paris, France September 9-13, 2013.

**2013: Vlad-Gabriel Vasilescu, Lidia Benea, Elisabeta Vasilescu.**

9/182

**“Influence of pH solution on corrosion behaviour of cobalt – chromium alloy used in dentistry”.**

Prezentare Poster la: Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I, Gala i, 16-17 mai 2013.P.3.11

**2013: Alina Ciubotariu, Lidia Benea, Pierre Ponthiaux, Francois Wenger.**

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**“Phenol – Formaldehyde Resin/Zn Composite Layers – A Way to Improve Corrosion Resistance of Zinc Electrodeposition”.**

Prezentare Poster la: Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I, Gala i, 16-17 mai 2013.  
P.3.10

**2013: Adina Pavlov, Lidia Benea, Lilia Ilie, Jean - Pierre Celis.**

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Drd-5

**“Influence of TiO<sub>2</sub> nanoparticles on surface morphology and cristalinity of nickel electrodeposited nickel film”.**

**Prezentare poster la:** Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I , Gala i, 16-17 mai 2013.

P.3.9

6/179  
Drd-4

**2013:** . Marilena Mardare (Pralea), **Lidia Benea**, Lilia Ilie.

**”Electro–co-deposition of UHMWPE biopolymer with cobalt to obtain functional coatings”**

**Comunicare la:** Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I , Gala i, 16-17 mai 2013.

PO.3.4.

5/178  
Drd-3

**2013:** Iulian Bounegru, **Lidia Benea**, Lilia Ilie, Geta Carac, Alexandru Chiriac.

**‘Advanced composite coatings for biomedical applications using electrodeposition of chitosan’.**

**Comunicare la:** Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I , Gala i, 16-17 mai 2013.

PO.3.3.

4/177

**2013:** Lidia Benea.

**Electrochemical surface modifications and characterization methods – a promising avenue for functional materials.**

**I.3.1. Invited conference at** Conferin a tiin ific a colilor Doctorale din UDJ Gala i CSSD-UDJG 2013 Edi ia I , Gala i, 16-17 mai 2013.

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**2012:** Alina – Crina CIUBOTARIU, **Lidia BENEÀ**, Pierre PONTTHIAUX and François WENGER

**“Zn/PF resin composite coatings and their corrosion resistance”**,

Poster presentation at Symposium 9, 63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic.

Poster presentation at A 63-a întâlnire anual a Societ ii Interna ionale de Electrochimie, 19 – 24 august 2012, Praga, Republica Ceh (63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic).

poster ID: ise122440.

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Drd-2

**2012:** Lidia BENEÀ, Eliza MARDARE, Jean – Pierre CELIS.

**“Influence of Surface Treatments on Corrosion Behaviour of Ti-6Al-4V Alloy in Bio-simulated Fluid Solution”**,

Poster presentation at Symposium 9, 63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic.

Poster presentation at A 63-a întâlnire anual a Societ ii Interna ionale de Electrochimie, 19 – 24 august 2012, Praga, Republica Ceh (63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic).

poster ID: ise121525.

1/174  
Drd-1

**2012:** Ionica PAVLOV, **Lidia BENEÀ**, Jean-Pierre CELIS.

**“Electrosynthesis and Corrosion behaviour of Ni/Nano-TiO<sub>2</sub> Composite Coating”**,

Poster presentation at Symposium 7, 63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic.

Poster presentation at A 63-a întâlnire anual a Societ ii Interna ionale de Electrochimie, 19 – 24 august 2012, Praga, Republica Ceh (63rd Annual Meeting of the International Society of Electrochemistry, 19 - 24 August, 2012 Prague, Czech Republic).

poster ID: ise121769.

- 173 **2011:** Authors: **Prof.dr. Lidia Benea**, Prof.dr. Maria Vlad, Prof.dr. Antoaneta ENE  
“**Analysis of the Doctoral School at “Dunarea de Jos” University of Galati involved in PhD EXPERT project.**”  
Conference presented at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 172 **2011:** **Adina PAVLOV, Lidia BENEÀ.**  
“**Influence of nanometric TiO<sub>2</sub> particles co-deposition on nickel electrocrystallization mechanism”**  
Oral presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 171 **2011:** **Stefan Balta, Lidia BENEÀ, Bart Van der BRUGGEN.**  
“**The use of ZnO nano-particles in polymeric membranes”**  
Oral presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 170 **2011:** **Eliza MARDARE, Lidia BENEÀ, Jean-Pierre CELIS.**  
“**Surface modification of Ti-6Al-4V alloy to improve the fretting – corrosion resistance in simulating body fluid solution”**.  
Oral presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 169 **2011:** **Simona F. ORCARU, Lidia BENEÀ, François WENGER, Pierre PONTTHIAUX**  
“**Performances of nanostructured Co/ZrO<sub>2</sub> composite coatings under tribocorrosion conditions in Hank SBF solution”**.  
Poster presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 168 **2011:** **Marilena MARDARE, Lidia BENEÀ, Eliza MARDARE**  
“**Synthesis and characterisation of cobalt – UHMWPE composite coatings by co – electrodeposition on stainless steel”**  
Poster presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 167 **2011:** **Lucian B ICAN, Lidia BENEÀ.**  
“**Nanocomposite coatings in copper matrix: performances and perspectives”**  
Poster presentation at: International Workshop: **Research quality in doctoral school, increased industrial and international visibility** (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 165 **2011:** **Alina CIUBOTARIU, Lidia BENEÀ, Pierre PONTTHIAUX, François WENGER.**  
“**Particles size influence on the morphological aspects and corrosion behaviour of PF resin/Zn composite layers”**.  
Poster presentation at: International Workshop: **Research quality in doctoral school,**

- increased industrial and international visibility (POSDRU 19524)/ 13 – 14 July 2011, Galati, Romania.
- 164 2011: Stefan Balta, Lidia Benea, Bart van der Bruggen.  
**INFLUENCE OF NANOPARTICLES SIZE ON THE MEMBRANE PROPERTIES**  
Plenary Lecture at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.
- 163 2011: Alina Ciubotariu, Lidia Benea, Wolfgang Sand  
**SULPHATE REDUCING BACTERIA IN BIOFILMS ON THERMOSETTING POLYMERS/ZN COMPOSITE COATINGS.**  
Plenary Lecture at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.
- 162 2011: Adina Ionica Pavlov, Lidia Benea  
**INFLUENCE OF CO-DEPOSITION PARAMETERS FOR ELECTROCHEMICAL SYNTHESIS OF Ni-TiO<sub>2</sub> NANOCOMPOSITE COATINGS – A REVIEW.**  
Plenary Lecture at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.
- 161 2011: Lucian Baican, Lidia Benea  
“Nanocomposite coatings obtained by electro-codeposition of ceramic particles with copper: a review”  
Poster presentation at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.
- 160 2011: Lidia Benea:  
“Complementary work a successful opportunity of a PhD student to gain experience from an abroad European academic institution”.  
Conference at Seminar: POLICIES CONCERNING RESEARCH ACTIVITY IN THE DOCTORAL SCHOOL AND THE EMPLOYMENT OF PhD GRADUATES. PhD Expert.  
22<sup>rd</sup> – 26<sup>th</sup> of May 2011, Leuven, Belgia.
- 159 2011: Adina Ionica PAVLOV , Lidia BENEÀ.  
“Electrochemical co-deposition of nanometric titanium oxide particles in the nickel matrix on stainless steel support”.  
ID-231, Poster presentation at Joint Scientific Meetings:  
VI International Materials Symposium MATERIAIS 2011, Guimarães, Portugal, 18-20 April 2011  
VI International Materials Symposium MATERIAIS 2011  
XV meeting of SPM - Sociedade Portuguesa de Materiais.  
18-20 April 2011, Guimarães, Portugal.
- 158 2011: Eliza MARDARE, Lidia BENEÀ, Jean – Pierre CELIS.  
**Tribocorrosion Behavior of Untreated Ti-6Al-4V Alloy In Fusayama – Meyer Saliva**

- Solution”**  
ID: 245. **Poster presentation at Joint Scientific Meetings:**  
VI International Materials Symposium MATERIAIS 2011, Guimarães, Portugal, 18-20 April 2011  
VI International Materials Symposium MATERIAIS 2011  
XV meeting of SPM - Sociedade Portuguesa de Materiais.  
18-20 April 2011, Guimarães, Portugal.
- 157 **2011: Lidia BENEÀ, Eliza MARDARE, Pierre PONTTHIAUX, François WENGER.**  
**“Dispersed nano structured Co / ZrO<sub>2</sub> composite coatings obtained by electrochemical codeposition.**  
Poster ID: 240. **Poster presentation at Joint Scientific Meetings:**  
VI International Materials Symposium MATERIAIS 2011, Guimarães, Portugal, 18-20 April 2011  
VI International Materials Symposium MATERIAIS 2011  
XV meeting of SPM - Sociedade Portuguesa de Materiais.  
18-20 April 2011, Guimarães, Portugal.
- 156 **2010: Florentina Simona ORCARU, Lidia BENEÀ, Pierre PONTTHIAUX, François WENGER.**  
**“Nanocomposite Layers Prepared by Electrochemical Codeposition of Nano-CeO<sub>2</sub> with Cobalt”.**  
**Poster presentation at 61st Annual Meeting of the International Society of Electrochemistry, September 26th - October 1st, 2010, Nice, France. Poster S07-P-093**
- 155 **2010: Stefan BALTA, Lidia BENEÀ, Simona Florentina SORCARU, Eliza MARDARE.**  
**“Electrochemical investigation of codeposition of ZrO<sub>2</sub> nano and microsized particles with cobalt”.**  
Poster presentation at 61st Annual Meeting of the International Society of Electrochemistry, September 26th - October 1st, 2010, Nice, France. Poster S05 – P-114.
- 154 **2010: Lidia BENEÀ, Marilena MARDARE, Eliza MARDARE.**  
**“Electrochemical Study of UHMWPE Inclusion in the Cobalt Matrix by Co-Deposition Process”.**  
**Poster presentation at 61st Annual Meeting of the International Society of Electrochemistry, September 26th - October 1st, 2010, Nice, France. Poster S09-P068.**
- 153 **2010: Eliza MARDARE, Lidia BENEÀ, Jean Pierre CELIS.**  
**“ Electrochemical corrosion properties of Ti-6Al-4V alloy used on orthopedic implants”,**  
Poster presentation at 61st Annual Meeting of the International Society of Electrochemistry, September 26th - October 1st, 2010, Nice, France. Poster S06 –P—073.
- 152 **2010: Lidia BENEÀ, Marilena MARDARE-PRALEA.**  
**“UHMWPE-Cobalt Composite Layers by Codeposition Process”,**  
**O-102: Presentare oral** la The Eight International Symposium on Electrochemical Micro & Nanosystem Technologies, 21-24 September 2010, Cannes Mandelieu, France
- 151 **2010: Lidia BENEÀ, Florentina Simona SORCARU, Eliza MARDARE-DANAILA,**

- Stefan Balta.  
“**Co-electrodeposition of Nano and Microsized ZrO<sub>2</sub> Particles with Cobalt**”,  
P-104 Poster presentation at The Eight International Symposium on Electrochemical Micro & Nanosystem Technologies, 21-24 September 2010, Cannes Mandelieu, France.
- 150** **2010: Lidia BENEÀ, Florentina Simona SORCARU, Pierre PONTTHIAUX, Francois WENGER,**  
„**Cobalt - CeO<sub>2</sub> Nanocomposite Coatings Prepared by Electrodeposition**”,  
P-103 Poster presentation at The Eight International Symposium on Electrochemical Micro & Nanosystem Technologies, 21-24 September 2010, Cannes Mandelieu, France. :
- 149** **2010: Stefan BALTA, Lidia BENEÀ, Bart Van der BRUGGEN.**  
„**Manufacturing of PES membranes with TiO<sub>2</sub> nanoparticles and comparison with PES membranes without TiO<sub>2</sub>**”,  
P-105 Poster presentation at The Eight International Symposium on Electrochemical Micro & Nanosystem Technologies, 21-24 September 2010, Cannes Mandelieu, France.
- 148** **2010: Lidia BENEÀ, Simona-Florentina SORCARU, Marian NEACSU, Pierre PONTTHIAUX, Francois WENGER, Elena DRUGESCU.**  
„**Tribocorrosion behaviour of Al-Zn-Mg-Cu alloy in 3.5 wt% NaCl solution**”  
Prezentare oral la Conferinta de Coroziiune si Protectie Anticoroziva 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv . 16 - 18 septembrie 2010, Cluj Napoca.
- 147** **2010: Eliza MARDARE, Lidia BENEÀ, Jean-Pierre CELIS.**  
„**Corrosion behaviour of Ti-6Al-4V alloy in FUSAYAMA – MEYER saliva solution**”.  
Prezentare oral la Conferinta de Coroziiune si Protectie Anticoroziva 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv . 16 - 18 septembrie 2010, Cluj Napoca.
- 146** **2010: Lidia BENEÀ, Marilena MARDARE-PRALEA, Eliza MARDARE-DANAILA, Paula COJOCARU**  
’**Study of UHMWPE inclusion in the cobalt matrix by electroplating co-deposition**”,  
Prezentare oral la Conferinta de Coroziiune si Protectie Anticoroziva 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv . 16 - 18 septembrie 2010, Cluj Napoca
- 145** **2010: Lidia BENEÀ, Alina CIUBOTARIU, Bernard TRIBOLLET, Wolfgang SAND.**  
„**Ni-SiC nanocoatings and SRB biofilm formation**”  
Prezentare oral la Conferinta de Coroziiune si Protectie Anticoroziva 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv . 16 - 18 septembrie 2010, Cluj Napoca.
- 144** **2010: Lidia BENEÀ, Florentina Simona SORCARU, Pierre PONTTHIAUX, Francois WENGER.**  
”**Mechanism of co-deposition of Co/CeO nanocoatings**”  
Prezentare oral la Conferinta de Coroziiune si Protectie Anticoroziva 2010 - a V-a Conferin Na ional cu Participare Interna ional de Coroziiune i Protec ie Anticoroziv . 16 - 18 septembrie 2010, Cluj Napoca
- 143** **2010: Florentina – Simona SORCARU, Lidia Benea, Pierre Ponthiaux, Francois WENGER.**



**"Co-depositon study of dispersed ZrO bioceramic with cobalt"**

Prezentare oral la Conferinta de Corozivare si Protectie Anticoroziva 2010 - a V-a Conferinta Nationala cu Participare Internationala de Corozivare si Protectie Anticoroziva . 16 - 18 septembrie 2010, Cluj Napoca

**2010: Stefan BALTĂ, Lidia BENEÀ, Bart Van der BRUGGEN.**

**142 "Manufacturing of PES membranes with oxide nanoparticles for water nanofiltration"**

Poster presentation at Conferinta de Corozivare si Protectie Anticoroziva 2010 - a V-a Conferinta Nationala cu Participare Internationala de Corozivare si Protectie Anticoroziva . 16 - 18 septembrie 2010, Cluj Napoca

**2010: Alina Crina CIUBOTARIU, Lidia BENEÀ, Wolfgang SAND**

**141 „Atomic Force Microscopy Method applied to investigate the thermosetting polymers/Zn composite Layers"**

Poster presentation at Conferinta de Corozivare si Protectie Anticoroziva 2010 - a V-a Conferinta Nationala cu Participare Internationala de Corozivare si Protectie Anticoroziva . 16 - 18 septembrie 2010, Cluj Napoca.

**2010: Lidia BENEÀ, Marilena MARDARE-PRALEA, Eliza MARDARE-DANAILA, Paula COJOARU**

**140 „Co-Deposition of UHMWPE during Cobalt Electroplating Process",**  
Prezentare Poster la **Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.**

**2010: Eliza MARDARE, Lidia BENEÀ, Jean-Pierre CELIS.**

**139 "Tribocorrosion Behaviour of Ti-6Al-4V Alloy in Fusayama – Meyer Saliva Solution",**

Prezentare Poster la **Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.**

**2010: Florentina Simona SORCARU, Lidia BENEÀ, Pierre PONTTHIAUX, Francois WENGER**

**138 "Tribocorrosion study of Co-CeO<sub>2</sub> Nanocomposite Coatings obtained by Electrodeposition",**

Prezentare Poster la **Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.**

**2010: Stefan BALTĂ, Arcadio SOTTO, Lidia BENEÀ, Bart Van der BRUGGEN.**

**137 "Synthesis and characterization of TiO<sub>2</sub> and ZnO blended nanofiltration membranes".**

Prezentare Poster la **Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.**

**2010: Lidia BENEÀ, Marian NEACU<sup>1</sup>, Simona-Florentina SORCARU, Pierre PONTTHIAUX, Francois WENGER, Elena DRUGESCU**

**136 "Tribocorrosion Study of Al-Zn-Mg-Cu alloy in NaCl Solution".**

Prezentare Poster la **Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie**

2010, Galati, Romania.

2010: Lidia Benea:  
Joint PhD Thesis at Dunarea de Jos University of Galati.  
135 Prezentare oral la Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.

2010: tefan Balta, Arcadio Sotto, **Lidia Benea**, Bart Van der Bruggen.  
„Synthesis and characterization of TiO<sub>2</sub> and ZnO blended nanofiltration membranes”,  
134 Poster presentation at International Conference SYSTEMS MEMBRANES-COMPLEX ROADMAPS TOWARD FUNCTIONAL DEVICES AND COUPLED PROCESSES, 14-19 Iunie 2010, Bucuresti, Romania.

2010: Lidia Benea:  
General presentation of Research and PhD Projects CC-ITES research centre (for Materials Engineering doctoral program), 25<sup>th</sup> – 31<sup>th</sup> of March 2010, KULEUVEN, Belgia. seminar  
133 Conference presented at Seminar PhD Expert organised in Katholieke Universiteit Leuven, Belgium during 25<sup>th</sup> – 31<sup>th</sup> of March 2010. (for Materials Engineering doctoral program).

2009: L. Benea, M.Mardare, P.Cojocaru;  
132 Electrochemical deposition and SEM surface morfology of Co and UHMWPE/Co composite layers.  
Conference presented at: UGALMAT, 22 – 23 octombrie, Galati, Romania.  
[www.fmet.ugal.ro/sesiuni\\_stiintifice](http://www.fmet.ugal.ro/sesiuni_stiintifice)

2009: L. Benea, F. Sorcaru, P. Ponthiaux, F. Wenger;  
131 “ Study of ZrO<sub>2</sub>/Co deposition with cobalt from chloride electrolyte”.  
Conference presented at: UGALMAT, 22 – 23 octombrie, Galati, Romania.  
[www.fmet.ugal.ro/sesiuni\\_stiintifice](http://www.fmet.ugal.ro/sesiuni_stiintifice)

2009: Alina Crina Ciubotariu, Lidia Benea, Olga Mitoc, Pierre Ponthiaux, François Wenger.  
130 "Morphological aspects and corrosion behaviour of phenol formaldehyde/Zn composite coatings”,  
Conference presented at: UGALMAT, 22 – 23 octombrie, Galati, Romania.  
[www.fmet.ugal.ro/sesiuni\\_stiintifice](http://www.fmet.ugal.ro/sesiuni_stiintifice)

2009: L. Benea, V. Dragan, B. Tribollet.  
129 „Electrochemical corrosion properties of SiC/Ni nano-composite coatings in 0,5 NaCl”.  
Conference presented at: UGALMAT, 22 – 23 octombrie, Galati, Romania.  
[www.fmet.ugal.ro/sesiuni\\_stiintifice](http://www.fmet.ugal.ro/sesiuni_stiintifice)

2009: **Lidia Benea**, Alina Ciubotariu, Bernard Tribollet, Wolfgang Sand.  
128 “ Influence of nano SiC co-deposition with nickel to biofilm formation on nanocomposite coatings”.

Poster presentation at: International Conference **FNMA - Functional and Nanonstructured Materials**, held in Sulmona (L'Aquila, Italy) from 27 to 30 September, 2009.

[www.fnma09.gda.pl](http://www.fnma09.gda.pl)

127

**2009:** Lidia Benea, Pierre Ponthiaux, F. Simona Sorcaru, Francois Wenger.  
„**Dispersed nano-CeO<sub>2</sub> in cobalt – a way to improve the coatings properties**”  
Poster presentation at: International Conference **FNMA - Functional and Nanonstructured Materials**, held in Sulmona (L'Aquila, Italy) from 27 to 30 September, 2009.

[www.fnma09.gda.pl](http://www.fnma09.gda.pl)

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**2009:** Lidia Benea, Marilena Mardare, Bernard Tribollet.  
**Dispersed nano-sized SiC in nickel to improve the corrosion properties of composite coatings.**

Conference presented at: EUROCORR 2009 - The European Corrosion Congress, 6 - 10 September 2009, Nice, France.

[www.eurocorr.org/EUROCORR\\_2009](http://www.eurocorr.org/EUROCORR_2009)

125

**2009:** Lidia Benea, Alina Ciubotariu, Bernard Tribollet, Wolfgang Sand.  
“**Surface modifications to influence biofilm formation on material surfaces**”.  
Conference presented at: EUROCORR 2009 - The European Corrosion Congress, 6 - 10 September 2009, Nice, France.

[www.eurocorr.org/EUROCORR\\_2009](http://www.eurocorr.org/EUROCORR_2009)

124

**2009:** Lidia Benea, Pierre Ponthiaux, F.S. Sorcaru, F. Wenger, J.P. Celis.  
„**Dispersed nano-sized SiC in nickel to improve the corrosion properties of composite coatings**”.

Conference presented at: EUROCORR 2009 - The European Corrosion Congress, 6 - 10 September 2009, Nice, France.

[www.eurocorr.org/EUROCORR\\_2009](http://www.eurocorr.org/EUROCORR_2009)

123

**2009:** Lidia Benea, Simona F. Sorcaru, Pierre Ponthiaux, François Wenger, Jean Pierre Celis  
**“Improving the corrosion resistance of cobalt coatings by co-deposition of ZrO<sub>2</sub> dispersed particles”.**

Conference presented at European COST 533 Action on Materials for Improved Wear Resistance of Total Artificial Joints final meeting , 2nd International Workshop on Biotribology - Bridging Engineering and Medicine held in Guimaraes, Portugal, 25-27 May 2009.

[www.ct2m.uminho.pt/biotrib2009/index](http://www.ct2m.uminho.pt/biotrib2009/index)

122

**2009:** Lidia Benea, Pierre Ponthiaux, Marilena Mardare, Jean Pierre Celis  
**“Alternative materials – Cobalt / UHMWPE composite coatings”.**  
Conference presented at European COST 533 Action on Materials for Improved Wear Resistance of Total Artificial Joints final meeting , 2nd International Workshop on Biotribology - Bridging Engineering and Medicine held in Guimaraes, Portugal, 25-27 May 2009.

[www.ct2m.uminho.pt/biotrib2009/index](http://www.ct2m.uminho.pt/biotrib2009/index)

- 2009: Alina Ciubotariu, **Lidia Benea**, Wolfgang Sand:  
“**Combined AFM and EFM for visualization of sulphate reducing bacteria on thermosetting resin / Zn composite coatings**”
- 121 Conference presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, 13-15 May 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2009: **Lidia Benea**, Alina Ciubotariu, Wolfgang Sand, Bernard Tribollet.  
“**Materials characteristics influencing biofilm formation and growth**”
- 120 Conference presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, May 13<sup>th</sup> 2009 – May 15<sup>th</sup> 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2009: **Lidia Benea**:  
COST D33 - WG1 activity report.  
“**Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials**”
- 119 Conference presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, May 13<sup>th</sup> 2009 – May 15<sup>th</sup> 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2009: **Lidia Benea**, Marilena Mardare, Paula Cojocaru, Remus Mihaila;  
„**ZrO<sub>2</sub>/Co New functional bio composite coatings**”.
- 118 Poster presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, May 13<sup>th</sup> 2009 – May 15<sup>th</sup> 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2009: Marilena Mardare, **Lidia Benea**, Paula Cojocaru.  
„**Influence of UHMWPE/Co composite coatings on biofilm formation, biocompatibility and degradation**”
- 117 Poster presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, May 13<sup>th</sup> 2009 – May 15<sup>th</sup> 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2009: Lidia Benea, Simona-F. Sorcaru, Pierre Ponthiaux.  
“**Nano-composite coatings – functional surfaces in decreasing the bacterial adhesion - surface study**”.
- 116 Poster presented at: COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials; International Final Workshop, May 13<sup>th</sup> 2009 – May 15<sup>th</sup> 2009, Cluj-Napoca RO.  
[www.fmet.ugal.ro/CC\\_ITES/Workshops](http://www.fmet.ugal.ro/CC_ITES/Workshops)
- 2008: **L. Benea**.  
**Electrochemical Methods To Study The Tribocorrosion Processes.**
- 115 Conference presented at RSE-SEE: First Regional Symposium on Electrochemistry of South-East Europe Crveni Otok, Rovinj, Istria, Croatia, May 4-8, 2008,  
[www.rse-see.net/First\\_RSE-SEE\\_Abstract\\_Collection](http://www.rse-see.net/First_RSE-SEE_Abstract_Collection)

- 114** 2008: L. Benea, G. Cârâc  
**Electrochemical and Structural Studies of Nano- And Micro – Structured Sic-Ni Composite Coatings.**  
Conference presented at RSE-SEE: First Regional Symposium on Electrochemistry of South-East Europe Crveni Otok, Rovinj, Istria, Croatia, May 4-8, 2008,  
[www.rse-see.net/First\\_RSE-SEE\\_Abstract\\_Collection](http://www.rse-see.net/First_RSE-SEE_Abstract_Collection)
- 113** 2008: A. Ciubotariu, L. Benea, O. Mito eriu, P. Ponthiaux, F. Wenger  
**Structural Modification Of Zinc Electroplating By Adding Phenol-Resin During Electrodeposition.**  
Conference presented at: RSE-SEE: First Regional Symposium on Electrochemistry of South-East Europe Crveni Otok, Rovinj, Istria, Croatia, May 4-8, 2008,  
[www.rse-see.net/First\\_RSE-SEE\\_Abstract\\_Collection](http://www.rse-see.net/First_RSE-SEE_Abstract_Collection)
- 112** 2008: Lidia Benea.  
**Chemical, electrochemical and structural factors influencing the [biofilm formation and growth](#).**  
Conference presented at: COST D33 - WG2 Meeting. Chemistry, Materials and Chemistry Engineering Department "Giulio Natta" Politecnico di Milano, Italia, 14 November 2008.
- 111** 2008: Alina - Crina Ciubotariu, Alina Cantaragiu, Lidia Benea, Geta Carac  
**Correlation between microstructure and micro hardness of cobalt matrix composite coatings.**  
Alina - Crina Ciubotariu, Alina Cantaragiu, Lidia Benea, Geta Carac  
Conference presented at: COST 533 "Biotribology: Materials for Improved Wear Resistance of Total Artificial Joints" WG's 1,2,3,4 Workshop Program. Hotel Ilisia, Michalakopoulou 25 Athens, Greece (GR), 7-8 October 2008.  
12<sup>th</sup> Management Committee Meeting.
- 110** 2008: G. Carac, L. Benea, A.M. Cantaragiu\*, D. Thiemig  
**"Electrocodeposition of Hydroxyapatite Nanoparticles with Zinc-Iron Alloys".**  
CONFERENCE PRESENTED AT: COST 533 "Biotribology: Materials for Improved Wear Resistance of Total Artificial Joints" WG's 1,2,3,4 Workshop Program. Hotel Ilisia, Michalakopoulou 25 Athens, Greece (GR), 7-8 October 2008.  
12<sup>th</sup> Management Committee Meeting.
- 109** 2008: Lidia Benea, Bernard Tribollet, Paula Popa, Wolfgang Sand.  
**Environmental and structural factors influencing biofilm formation and bicorrosion.**  
Conference presented at COST Action D33: „Nanoscale electrochemical and bio-processes at solid-aqueous interfaces of industrial materials”, Working Group 3 meeting. Real Centro Universitario Escorial "Maria Cristina" Universidad Complutense de Madrid, Spania 3 November 2008.
- 108** 2008: Lidia Benea.  
**Introduction of WG1.**  
Conference presented at: COST D33 - 2<sup>nd</sup> Workshop: "Nanoscale Electrochemical and Bio-Processes (Corrosion) at Solid-Aqueous Interfaces of Industrial Materials" Obernai – France, May 14 - 15, 2008.

- 107 **2008: L. Benea, B. Tribollet, Mardare Marinela.**  
**Effect of nano sized SiC particles on the electrochemical corrosion behaviour of nickel coatings.**  
Conference presented at: COST D33 - 2<sup>nd</sup> Workshop: "Nanoscale Electrochemical and Bio-Processes (Corrosion) at Solid-Aqueous Interfaces of Industrial Materials" Obernai – France, May 14 - 15, 2008.
- 106 **2008: L. Benea, B. Tribollet, W. Sand, P. Ponthiaux, F. Wenger**  
**Factors influencing the bacteria attachments and biofilm formation on surface of materials.**  
Conference presented at: COST D33 - 2<sup>nd</sup> Workshop: "Nanoscale Electrochemical and Bio-Processes (Corrosion) at Solid-Aqueous Interfaces of Industrial Materials" Obernai – France, May 14 - 15, 2008.
- 105 **2008: Lidia Benea, Francois Wenger, Jean-Pierre Celis, Pierre Ponthiaux**  
**Electrochemical methods in investigation the tribocorrosion processes of passivable materials.**  
Conference presented at: ICCMTM 2008 (International Conference on Corrosion and Modern Technologies in the Military) 5-8 Nov. 2008 Bucharest, Romania.  
[www.iccmtm2008.itc.ro/Programme\\_ICCMTM\\_2008](http://www.iccmtm2008.itc.ro/Programme_ICCMTM_2008)
- 104 **2008: Geta Carac, Lidia Benea, Denny Thiemig, Andreas Bund.**  
**Cobalt composite coatings with lanthanide oxides – correlation between structure and properties.**  
Conference presented at: ICCMTM 2008 (International Conference on Corrosion and Modern Technologies in the Military) 5-8 Nov. 2008 Bucharest, Romania.  
[www.iccmtm2008.itc.ro/Programme\\_ICCMTM\\_2008](http://www.iccmtm2008.itc.ro/Programme_ICCMTM_2008)
- 103 **2008: Alina Ciubotariu, Lidia Benea, Olga Mitoseriu, Pierre Ponthiaux, Francois Wenger;**  
**Influence of current density on the corrosion behaviour of phenol–formaldehyde / Zn composite coatings obtained by electrodeposition.**  
Conference presented at: ICCMTM 2008 (International Conference on Corrosion and Modern Technologies in the Military) 5-8 Nov. 2008 Bucharest, Romania.  
[www.iccmtm2008.itc.ro/Programme\\_ICCMTM\\_2008](http://www.iccmtm2008.itc.ro/Programme_ICCMTM_2008)
- 102 **2008: Lidia Benea, B Tribollet, W Sand, F Wenger, P Ponthiaux.**  
**Bacteria attachments and biofilm formation on material surfaces.**  
Conference presented at: International Conference of Physical Chemistry Romphyschem-13, September 3 - 5, 2008, Bucharest – ROMANIA.  
[www.web.icf.ro/romphyschem/index.php/registered-participants13](http://www.web.icf.ro/romphyschem/index.php/registered-participants13)
- 101 **2008: Lidia Benea, Bernard Tribollet Marilena Mardare**  
**Electrochemical corrosion behaviour of nano SiC-Nickel composite coatings.**  
Conference presented at: International Conference of Physical Chemistry Romphyschem-13, September 3 - 5, 2008, Bucharest – ROMANIA.  
[www.web.icf.ro/romphyschem/index.php/registered-participants13](http://www.web.icf.ro/romphyschem/index.php/registered-participants13)
- 100 **2008: Olga Mitoseriu, Alina Ciubotariu, Lidia Benea, Pierre Ponthiaux, Francois Wenger.**  
**Obtained by electrodeposition and corrosion behaviour of phenol formaldehyde resin – Zn composite coatings.**  
Conference presented at: International Conference of Physical Chemistry Romphyschem-

13, September 3 - 5, 2008, Bucharest – ROMANIA.

[www.web.icf.ro/romphyschem/index.php/registered-participants13](http://www.web.icf.ro/romphyschem/index.php/registered-participants13)

- 2007: Lidia Benea**  
**Electrochemical aspects and bio-tribological properties of actually used nickel based alloys and alternative materials and coatings**  
**Conference on ongoing work of the project at European Action ESF-COST: COST 533 Biotribology (Materials for Improved Wear Resistance of Total Artificial Joints)**  
99 [www.biotribology.net](http://www.biotribology.net)  
ENIWEP (European Network for Industrial Wear prevention); [www.eniwep.org](http://www.eniwep.org)  
Place: Fundaci3n TEKNIKER, Avda. Otaola, 20, 20600 Eibar (Gipuzkoa) / Spain, 27-31 of October 2007.

- 2007: Lidia Benea, F. Wenger, J.P. Celis, P.L. Bonora, M. L-Varsanyi.**  
**Tribocorrosion systems: processing and properties investigation.**  
98 COST Action 532 Scientific Final Report Triboscience and tribotechnology superior friction and wear control in engines and transmissions, p. 69-79, COST-ESF-Materials, Physical and Nanosciences.

- 2006: Lidia Benea.**  
**Electrochemical Aspects and Bio - Tribocorrosion Properties of Actually Used Nickel Based Alloys and Alternative Materials and Coatings in artificial joints.**  
97 **Conference presented at European Project: COST 533 - Materials for Improved Wear Resistance of Total Artificial Joints.** Membru in Comitetul de Management si **Director proiect.** COST Materials Action 533 Meeting date 23-24 februarie 2006 in Leeds, UK.

- 2006: L. Benea, V. Iordache, F. Wenger, P. Ponthiaux, J.-P. Celis;**  
**Tribo-corrosion behaviour of silicon carbide – nickel nanostructured coatings in pin-on-disk systems.**  
96 **Conference presented at: EUROCORR 2006, 25 to 28 September 2006, Maastricht, Pays-Bas, Olanda.**

- 2006: LIDIA BENEÀ**  
**Aspects of micro and nanocorrosion in tribocorrosion processes.**  
95 **Short oral presentation la Simpozionul International - 6th International Symposium on Electrochemical Micro & Nano System Technologies, EMNT 2006, organizat de Max-Planck-Institut für Eisenforschung, Düsseldorf si tinut la Bonn, Germany in perioada 22 august – 25 august 2006.**  
[www.192.12.81.124/index.php?id=92](http://www.192.12.81.124/index.php?id=92)

- 2006: LIDIA BENEÀ, GETA CARAC.**  
**Dispersed Nano and Micro Structured Composite Coatings Obtained by Codeposition of Ceramic Particles with Nickel.**  
94 **Short oral presentation la Simpozionul International - 6th International Symposium on Electrochemical Micro & Nano System Technologies, EMNT 2006, organizat de Max-Planck-Institut für Eisenforschung, Düsseldorf si tinut la Bonn, Germany in perioada 22 august – 25 august 2006.**  
[www.192.12.81.124/index.php?id=88](http://www.192.12.81.124/index.php?id=88)

- 2006: Lidia Benea  
**Electrochemical and biotribocorrosion studies of interfaces between (composites, metallic, polymeric, ceramic) materials and micro organisms.**  
93 Conferinta in cadrul proiectului european **COST D33 – Chemistry**, organizat la Galati, in perioada 18-19 septembrie 2006, intalnirea grupului de lucru **WG2 - Analyses of chemical and biological processes causing adhesion of macromolecules, (microbial) cells, consortia etc to materials surfaces.**

- 2006: Lidia BENEĂ  
**Nano and micro structured composite coatings from electrodeposition to tribocorrosion**  
92 Conferinta la Workshopul International *Surface engineering - from nano and micro composite coatings electrodeposition to tribocorrosion of functional materials.* In perioada 22 iulie-28 iulie 2006, organizat de Universitatea Dunarea de Jos din Galati, Facultatea de Metalurgie si Stiinta Materialelor – Laboratorul Interfete-Tribocoroziune si Sisteme Electrochimice, in colaborare cu Ecole Centrale Paris si Katholieke Universiteit Leuven.

- 2006: Lidia Benea, Viorel Iordache, Francois Wenger, Pierre Ponthiaux:  
**“Comportarea straturilor compozite microstructurate ZrO<sub>2</sub>-Ni în condiții de tribocoroziune”.**  
91 Conferinta THE CORROSION AND ANTICORROSIVE PROTECTION CONFERENCE, organizata de Universitatea Tehnica Cluj Napoca, 27-28 octombrie 2006.

- 2006: Alina Ciuborariu, Lidia Benea, Magda Lakatos Varsanyi:  
**“Îmbunătățirea rezistenței la coroziune prin modificări nano și microstructurale induse de codepunerea particulelor ceramice cu Nichel” .**  
90 Conferinta orală la Conferinta Internațională Coroziune și Protecție Anticorozivă (CPA), organizată la Cluj, în perioada 27-28 octombrie 2006.  
Conferinta THE CORROSION AND ANTICORROSIVE PROTECTION CONFERENCE, organizata de Universitatea tehnica Cluj Napoca, 27-28 octombrie 2006.

- 2006: Lidia Benea, P. Ponthiaux, F. Wenger, J. P. Celis.  
**“Electrochemical and surface analysis techniques to study metal/solution interface in tribocorrosion processes”.**  
89 **KeyNote Lecture** la Conferinta internațională ROMPHYSICHEM-12, 6-8 septembrie 2006, București.

- 2006: A.C. Ciubotariu, Lidia Benea, M. Lakatos–Varsanyi.  
**Corrosion studies of nano– and micro- structured SiC–Ni composite coatings obtained by electrodeposition.**  
88 Poster la **International Conference on Physical Chemistry ROMPHYSICHEM-12** din perioada September 6 - 8, 2006, Bucharest – ROMANIA.

- 2006: Lidia Benea, François Wenger, Viorel Iordache, Pierre Ponthiaux.  
87 **Tribocorrosion Behaviour of Nanostructured SiC-Ni Composite Coatings Obtained by Electrodeposition.**



**Conferinta in In cadrul Workshopului European “Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale” organizat de catre Institut d’Investigacions Químiques i Ambientals de Barcelona (IIQAB) i Consejo Superior de Investigaciones Científicas (CSIC), la Barcelona – Sitges, Spania in perioada 11 – 14 mai 2006.**

5: Geta Cârâc, Ana Maria Pais, **Lidia Benea**, Adriana Ispas and Andreas Bund.  
**Electrolytes Conductivity with Nano-CeO<sub>2</sub> and Nano-Nd<sub>2</sub>O<sub>3</sub> and Corrosion Behaviour of Nickel Dispersed Composite Coatings Obtained.**

86 **Conferinta in In cadrul Workshopului European “Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale” organizat de catre Institut d’Investigacions Químiques i Ambientals de Barcelona (IIQAB) i Consejo Superior de Investigaciones Científicas (CSIC), la Barcelona – Sitges, Spania in perioada 11 – 14 mai 2006.**

2006: Alina-Crina Ciubotariu, **Lidia Benea**, Magda Lakatos-Varsany.

**Nano- and Micro-Structured SiC-Ni Composite Coatings: Electrochemical Corrosion and Structural Studies.**

85 **Conferinta in In cadrul Workshopului European “Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale” organizat de catre Institut d’Investigacions Químiques i Ambientals de Barcelona (IIQAB) i Consejo Superior de Investigaciones Científicas (CSIC), la Barcelona – Sitges, Spania in perioada 11 – 14 mai 2006.**

2006: Felicia Bratu, A. Berradja, **Lidia Benea**, G. Willems, Jean-Pierre Celis.

**Nanohardness and Tribocorrosion Behaviour of Stainless Steel Materials Sliding in Ringer’s Solution.**

84 **Conferinta in cadrul Workshopului European “Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale” organizat de catre Institut d’Investigacions Químiques i Ambientals de Barcelona (IIQAB) i Consejo Superior de Investigaciones Científicas (CSIC), la Barcelona – Sitges, Spania in perioada 11 – 14 mai 2006.**

2006: Lidia Benea, François Wenger, Pierre Ponthiaux.

**“Repassivation kinetics of cobalt chromium alloy in boric acid solution”.**

83 Prezentare oral la Conferinta Internationala: EMCR 2006- Electrochemical Methods in Corrosion Research din perioada 18 iunie - 23 iunie 2006 in Dourdan, Franta.  
[www.ise-online.org/sponsmeet/past\\_sponsered\\_events](http://www.ise-online.org/sponsmeet/past_sponsered_events)

2006: **Lidia Benea**:

82 **“Improved hardness and tribocorrosion properties of nickel coatings by co-depositing ZrO<sub>2</sub> particles during electroplating process”.**;

**Oral presentation la ARTCAST 2006. Lucrarile simpozionului international: Turnatoria de la rigoarea tehnicii la arta. Galati 4-5 mai 2006.**

2006: **Lidia Benea**, François Wenger, Pierre Ponthiaux.

81 **“Repassivation Kinetics of Cobalt Chromium Alloy in Aqueous Solution.**

Poster la Congresul International al Societ ii Internationale de Electrochimie, 57th Annual Meeting of the International Society of Electrochemistry, organizat la Heriot-Watt

University in Edinburgh, UK, in perioada 27 august – 1 septembrie 2006. S9 –P-9.

- 80 **2006: Lidia Benea**, Geta Carac, Alina Ciubotariu, Magda Lakatos-Varsanyi “Nano- and Micro - Structured Composite Coatings SiC-Nickel: Electrochemical and Structural Studies”.  
Congresul International al Societății Internationale de Electrochimie, 57th Annual Meeting of the International Society of Electrochemistry, organizat la Heriot-Watt University in Edinburgh, UK, in perioada 27 august – 1 septembrie 2006. S4-P-11.

- 79 **2005: Lidia Benea. Electrochemical Aspects and Bio - Tribocorrosion Properties of Actually Used Nickel Based Alloys and Alternative Materials and Coatings in artificial joints.**  
Conference presented on ongoing project in the frame of European Action COST Materials Action 533 - Materials for Improved Wear Corrosion Resistance of Total Artificial Joints, Meeting date 17-18 martie 2005 in Torino, Italy.

- 78 **2005: Lidia Benea**, Geta CARAC  
Electrochemical and Structural Aspects of Dispersed Micro- and Nano- Sized SiC Particles Codeposition with Nickel.  
**Conferintă** în cadrul Workshopului **Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale** organizat de către Koç University, Turkey, la Istanbul in perioada 1 –5 septembrie 2005.

- 77 **2005: Alina-Crina Ciubotariu, Lidia Benea**, Magda Lakatos Varsanyi.  
Improved corrosion resistance through micro and nano-structural modifications induced by codepositing ceramic particles with nickel.  
**Conferintă** în cadrul Workshopului **Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale** organizat de către Koç University, Turkey, la Istanbul in perioada 1 –5 septembrie 2005.

- 76 **2005: L. Benea, V. Iordache, F. Wenger, P. Ponthiaux;**  
Tribocorrosion study of nanostructured SiC-Ni composite coatings;  
Conferința la International Conference “Integrated Engineering Surface Technology for Engine Applications” organized jointly by US NIST (USA -National Science Foundation) and COST-ESF (European Science Foundation), in perioada 12-15 October 2005, la Porto – Portugalia,

- 75 **2005: Lidia Benea**  
“Nano and micro structured metal – matrix composite coatings by electrolytic co-deposition”.  
Conference presented at International Workshop “**Surface degradation of materials and coatings by combined corrosion and wear**” organised by KATHOLIEKE UNIVERSITEIT LEUVEN (KU.Leuven), Department of Metallurgy and Materials Engineering (MTM), Belgia, 29 March 2005.

- 74 **2005: Geta CÂRĂC, Lidia BENEÀ**, Catalina ITICESCU, Pier Luigi BONORA, Erika

- KALMAN.  
**Electrochemical study of Al<sub>2</sub>O<sub>3</sub> nanoparticles codeposition in the nickel matrix.**  
**Conference presented** in cadrul Workshopului COST D19-Xchemistry: **Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale** organizat de catre Koç University, Turkey, la Istanbul in perioada 1 –5 septembrie 2005
- 73 **2005: Lidia Benea**, Lidia Benea, Viorel Iordache, François Wenger, Pierre Ponthiaux  
**“Nanostructured SiC-Ni composite coatings obtained by electrodeposition – A Tribocorrosion study”**, Conferin a Stiintifica UgalMat 2005 – Tehnologii si Materiale Avansate, din perioada 20-22 octombrie 2005
- 72 **2005: Lidia Benea** : „Metode electrochimice in-situ pentru studiul interfetei metal/solu ie in procesele de tribocoroziune”, „Lucrarile celui de al VIII-lea simpozion de Chimia coloizilor si suprafetelor (VIII SCCS 2005). 2-4 iunie 2005, Galati.
- 71 **2005: L. Benea**, P.L. Bonora, F. Wenger;  
**Nanostructured composite coating Ni-SiC Obtained by electrodeposition;**  
Poster la The Fifth International Congress in Materials Science and Engineering, "Gh. Asachi" Technical University from Iasi, May 26-28th, 2005.
- 70 **2004: Lidia Benea**  
**"Tribocorrosion Aspects of Ni-ZrO<sub>2</sub> Composite Coating".**  
Conferin la International Workshop of the European Virtual Tribology Institute, Session 1: Tribochemistry, GHENT, BELGIUM, Het Pand, 18-20 October, 2004.
- 69 **2004: Lidia Benea**  
**“Nanostructured composite coatings obtained by electrodeposition.**  
Conferin la NanoChemistry Workshop 2004, Darmstadt, Germania, 18/06/04-20/06/04, organizat in cadrul proiectului european COST D19 – Chemical Functionality to the Nanometer Scale.
- 68 **2004: Lidia Benea**  
**“Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation”.**  
Conference on project M1 status and work, Working Groups Meeting, COST Action 532 "Triboscience and Tribotechnology: Superior friction and wear control in engines and transmissions ", 19-20 February, 2004, Bruxelles.
- 67 **2003: Lidia BENEÀ**, Pier Luigi BONORA, François WENGER , Pierre PONTIAUX  
**"Tribocorrosion Aspects of Modified Surfaces by Nano- and Micro- Structured Composite Coatings Materials".**  
**Oral presentation:** EUROCORR 2003, European Federation of Corrosion Congress, September 28 - October 2, 2003, Budapest, Hungary.
- 66 **2003: Lidia Benea:** “Electrochemical CORROSION studies of X60 carbon steel using electrochemical impedance spectroscopy and potentiodynamic methods”;

"Conferinta Nationala de Tehnologii si Materiale Avansate" cu participare internationala, organizata de Universitatea "Dunarea de Jos" din Galati, Facultatea de Metalurgie si Stiinta Materialelelor, Centrul de Cercetare pentru Calitatea Materialelelor si a Mediului, 20-22 Noiembrie 2003.

65 **2003: Lidia Benea:** "Few aspects of marine bio corrosion of Nano structured SiC - nickel composite coatings"; "Conferinta Nationala de Tehnologii si Materiale Avansate" cu participare internationala, organizata de Universitatea "Dunarea de Jos" din Galati, Facultatea de Metalurgie si Stiinta Materialelelor, Centrul de Cercetare pentru Calitatea Materialelelor si a Mediului, 20-22 Noiembrie 2003.

64 **2003: Lidia Benea :** „The Electrolytic Co-deposition of Zirconium Oxide Particles with Nickel”; Conferinta Nationala de Tehnologii si Materiale Avansate" cu participare internationala, organizata de Universitatea "Dunarea de Jos" din Galati, Facultatea de Metalurgie si Stiinta Materialelelor, Centrul de Cercetare pentru Calitatea Materialelelor si a Mediului, 20-22 Noiembrie 2003.

63 **2002, LIDIA BENEĂ;**  
**Composite coatings materials and tribocorrosion.**  
**Conference presented** at Working Party of Research Bilateral Project between "Dunarea de Jos" University of Galati - Romania and Chemnitz University of Technology - Germany: COBIL-RO 014/2002-2004, GALATI, august 2002.

62 **2002: Lidia Benea,** Pier Luigi Bonora, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND  
**"Processing and Properties of Electrodeposited Composite Coatings: Results and Perspectives "**.  
**KEY NOTE LECTURE:** 15<sup>TH</sup> International Corrosion Congress -Frontiers in Corrosion Science and Technology, Granada, Spain, September 22-27, 2002.

61 **2002: LIDIA BENEĂ,** P. PONTTHIAUX, F. WENGER, J. GALLAND, D. HERTZ, J. Y. MALO.  
**"Tribocorrosion of stellite 6 in sulfuric acid medium :electrochemical behaviour and wear"**  
**Oral communication:** 15<sup>TH</sup> International Corrosion Congress -Frontiers in Corrosion Science and Technology, Granada, Spain, September,22-27, 2002.

60 **2002: Lidia BENEĂ,** Geta CARAC, Pier Luigi BONORA, Francois WENGER, Pierre PONTTHIAUX and Jacques GALLAND.  
**Nanostructured composite coatings and marine biocorrosion.**  
**Invited Conference** presented at 1<sup>st</sup> International Conference: "Study and Control of Corrosion in the Perspective of Sustainable Development of Urban Distribution Grids"; Constantza -Romania, Jun 6--8, 2002.

59 **2002: Lidia Benea:**  
**"Biological marine corrosion of SiC-Ni nano-structured coatings".**  
Conferin prezentat (30minute)la reuniunea de lucru COST 520 BIOFOULING AND MATERIALS, Workshops, Madrid, Spania, 12-15 Noiembrie, 2000 (s-a introdus proiectul

Romania-Italia –Franta in actiunea european COST 520)

- 2001: **Lidia BENEÀ**, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND.  
**“Wear corrosion study of nanostructured composite coatings obtained by electroplating”**  
58 Conferin prezentat (20 minute) la Congresul interna ional “The 2001 JOINT INTERNATIONAL MEETING, The Electrochemical Society and The International Society of Electrochemistry”, Symposium D1, Corrosion, September 2-7, 2001, San Francisco, USA.
- 2001: **Lidia BENEÀ**, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND.  
**“Nanocomposite electroplating. Electrochemical aspects, structure and properties”.**  
57 Lecture, Conferin prezentat (20 minute) la Congresul interna ional “The 2001 JOINT INTERNATIONAL MEETING, The Electrochemical Society and The International Society of Electrochemistry”, Symposium E1 Electrochemical Deposition and Dissolution, September 2-7, 2001, San Francisco, USA.
- 2000: **Lidia Benea, P. L. BONORA, A. BORELLO, S. MARTELLI, G. MAURIN.**  
**“Composite electrodeposition to obtain nano-structured coatings”.**  
56 **Invited Lecture** presented (30minute) la Congresul interna ional **International Symposium on “Soft Solution-Processing” (SSP-2000), Tokyo, Japan, 9-13 December 2000.**
- 2000: **Lidia Benea**, Pier Luigi Bonora, Alberto Borello, Stefano Martelli, Georges Maurin.  
**“Electrodeposition of SiC nano-crystals with nickel”**  
55 **Invited Lecture** presented (30minute) la Congresul interna ional 197<sup>th</sup> Meeting of The Electrochemical Society Inc., Symposium “TRIBOLOGY OF ELECTRODEPOSITED AND COMPOSITE LAYERS”, Toronto, Canada, May 14-19, 2000.
- 2000: **Lidia Benea:**  
**“Some aspects in obtaining and properties of zirconia/metal composite coatings”**  
54 Conferin prezentat (20minute) la Congresul interna ional 197<sup>th</sup> Meeting of The Electrochemical Society Inc., Symposium “TRIBOLOGY OF ELECTRODEPOSITED AND COMPOSITE LAYERS”, Toronto, Canada, May 14-19, 2000.
- 1999: **LIDIA BENEÀ, GEORGES MAURIN AND OTMAR DOSSENBACH.**  
**“NICKEL ZIRCONIA COMPOSITE COATINGS AS ELECTRODE MATERIAL FOR WATER ELECTROLYSIS”**  
53 Conferin prezentat (20minute) la Congresul interna ional 50<sup>th</sup> International Society of Electrochemistry (ISE) Meeting, Section 8, 5-10 September 1999, Pavia Italy.
- 1999: **Lidia Benea**, O. Dossenbach, F. Wenger, P. Ponthiaux and J. Galland:  
**“Composite Coatings with Zirconium Oxide as Dispersed Phase and their Anticorrosion Properties”.**  
52 Conferin prezentat (20minute) la Congresul interna ional 50<sup>th</sup> International Society of Electrochemistry (ISE) Meeting, Section 7, 5-10 September 1999, Pavia, Italy.
- 1999: **Lidia Benea**, Olga Mitoseriu, J. Galland, F. Wenger, P. Ponthiaux.  
**“Corrosion study of copper composite coating by the impedance spectroscopy**  
51

method”.

**Conferin prezentat (30 minute) la Congresul interna ional (Invited lecture) EUROCORR'99 Section Coatings, 30 august- 2 September 1999, Aachen, Germany.**

50

**1998: Lidia Benea: “Surface treatments by electrochemical methods to improve anticorrosion and wear properties of materials”**

**Seminar (1 or ) sus inut la Trento University, Department of Materials Engineering, Italy, October 30 –November 8, 1998.**

49

**1998: LIDIA BENEÀ: “CORROSION STUDY OF CONCRETE REINFORCING STEEL BY ELECTROCHEMICAL METHODS”**

**Conferin prezentat (20minute) la Congresul interna ional: International Society of Electrochemistry, 49<sup>th</sup> ISE Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.**

48

**1998: Lidia Benea: “Comparative Study of Composite and Pure Nickel Coatings Obtained by Electrodeposition”.**

**Conferin prezentat (20minute) la Congresul interna ional: International Society of Electrochemistry, 49<sup>th</sup> ISE Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.**

47

**1998: LIDIA BENEÀ: “COMPARATIVE STUDY OF COMPOSITE AND PURE NICKEL COATINGS OBTAINED BY ELECTRODEPOSITION”.**

**Conferin plenar (1 or ) invitat la Institutul de Cercet ri Kyushu Institute of Technology, Kytakyushu, Japon, September 19, 1998.**

46

**1998: Lidia Benea: “Corrosion study of Concrete Reinforcing Steel by Electrochemical Methods”.**

**Conferin prezentat (20 minute) la Congresul interna ional EUROMAT'98, Portugal, Lisabona, 22-25 of July 1998.**

45

**1998: Lidia Benea: “Electrodeposition of dispersed particles in a zinc matrix”.**

**Poster prezentat la Congresul interna ional: International Society of Electrochemistry, 49<sup>th</sup> Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.**

44

**1998: Lidia Benea: “Electrochemical Aspects of Zirconia Particles Codeposition in a Nickel Matrix” .**

**Poster prezentat la Congresul interna ional: International Society of Electrochemistry, 49<sup>th</sup> Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.**

43

**1997: Lidia Benea: “Comparative Corrosion Study of Metal Coatings and Metal Matrix Composite Coatings.**

**Conferin prezentat (20 minute) la Congresul interna ional: The 1997 Joint International Meeting The Electrochemical Society and The International Society of Electrochemistry), 31 august -5 September, Paris, 1997, Session Passivity and its Breakdown.**

42

**1997: Lidia Benea: “Composite Coatings obtained by Electrodeposition of Insoluble particles with Metals”.**

**Poster prezentat la Congresul interna ional: The 1997 Joint International Meeting (The Electrochemical Society and The International Society of Electrochemistry), 31 august - 5 September, Paris, 1997, Session Electrodeposition.**

- 41 **1997: Lidia Benea: "Couches composites obtenues par electrodeposition. Etude comparative avec les depots des metaux purs".**  
Poster prezentat la Congresul international: **JOURNEES d'ELECTROCHIMIE** 1997, 2-5 Juillet, Montreal, Canada.
- 40 **1997: Lidia Benea: "Comparative Corrosion Study of Copper Zirconia and pure Copper. Coatings Obtained by Electroplating"**  
Poster prezentat la Congresul international: **3. Electrochemisches Grundlagen Symposium** in Verbindung mit dem 2.Kurt - Schwabe Symposium, 17 - 19 of April 1997, Dresden, Germany.
- 39 **1997: Lidia Benea: "Ceramic particles co-deposition in the nickel matrix "**  
Conferin prezentat (30 minute) la International Conference "NOVATIVE TECHNOLOGIES", 1997, BUCHAREST.
- 38 **1997: Lidia Benea: "Composite Electrodeposition – Achievements and Perspectives".**  
Conferin plenar (1 or ) prezentat la International Conference "Ecology – Electroplating – Corrosion", September 1997, Piatra Neamt, Romania.
- 37 **1996: Lidia Benea: "Electrochemical Deposits of Metals with Disperse Particles"**  
Poster prezentat la Congresul international: 47<sup>th</sup> ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF ELECTROCHEMISTRY, September 1-6, 1996, Veszprem - Balatonfured, Hungary, P 5e-3
- 36 **1996: Lidia Benea: "Corrosion of Electrodeposited Composite Layers" P 6c-2.**  
Poster prezentat la Congresul international: 47<sup>th</sup> ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF ELECTROCHEMISTRY, September 1-6, 1996, Veszprem - Balatonfured, Hungary, P 6c-2.
- 35 **1996: Lidia Benea: "Electrodeposition of Dispersed Particles with Metals".**  
Conferin prezentat (40 minute) (Key Note lecture) la International Session "Electrochemistry a Frontier Field of Theoretical and Practical Interest" , 31 October - 3 November, Cluj - Napoca, Romania.
- 34 **1996: Lidia Benea: "Electrodeposition of Dispersed Particles with Metals"**  
Conferin prezentat (20 minute) la 7<sup>th</sup> Chemistry-Physics Conference Bucharest, Romania, September 25-27, 1996.
- 33 **1996: Lidia Benea: "Studies on Zn-Fe Alloy Electrodeposition on Steel Suport"**  
Conferin (20 minute) prezentat la 3<sup>rd</sup> National Conference of Metallurgy, September 25-27, 1996 Bucharest, Romania.
- 32 **1996: Lidia Benea: "Obtaining of Composite Layers by Disperse Particle Metals Electrodeposition"**  
Conferin plenar (1 or ) prezentat (Plenary Lecture) la 3<sup>rd</sup> National Conference of Metallurgy, September 25-27, 1996 Bucharest, Romania.
- 31 **1993: Lidia Benea: "Compozite cu grafit în straturi multiple prin electrodepunere în matrice de nichel"**

La Sesiunea Stiintifica organizata de Universitatea Galati cu ocazia a 45 de ani de Invatamânt superior în Galati în perioada 28-30 octombrie 1993

30 **1993: Lidia Benea: "Cresterea rezistentei la coroziune a straturilor metalice prin codepunere de particule disperse din oxizi si amestecuri de oxizi"**  
La Sesiunea Stiintifica organizata de Universitatea Galati cu ocazia a 45 de ani de Invatamânt superior în Galati în perioada 28-30 octombrie 1993.

29 **1992: Lidia Benea: "Studiul echilibrului chimic în extractia cobaltului cu tio-bis-b-naftol"**  
La Conferinta Nationala de Chimie Analitica organizata la Cluj în perioada 24-25 septembrie 1992

28 **1992: Lidia Benea: "Electrodepunerea peliculelor subtiri în sisteme metalice"**  
La a VI-a Conferinta de Chimie -Fizica din septembrie 1992 organizata la Bucuresti.

27 **1992: Lidia Benea: "Cercetari privind rezistenta la coroziune a peliculelor protectoare în sisteme metalice"**  
La Conferinta Nationala: "Prevenirea si protectia anticoroziva a constructiilor metalice" organizat la Suceava în perioada 10-12 iunie 1992.

26 **1989: Lidia Benea: "Aprecierea calitatii protectiilor anticorozive prin teste de coroziune accelerata"**  
La Simpozionul National "Prevenirea si protectia anticoroziva a constructiilor metalice" organizat la Iasi în perioada 9-10 iunie 1989.

25 **1989: Lidia Benea: "Benzi din otel nichelate electrochimic "**  
Prezentat în cadrul "Saptamânii Stiintei si Tehnicii pentru Tineret" organizata în Galati în luna noiembrie- 1989, cu care am **luat premiul I.**

24 **1989: Lidia Benea: "Benzi din otel cuprate electrochimic"**  
Prezentat în cadrul "Saptamânii Stiintei si Tehnicii pentru Tineret" organizata în Galati în luna noiembrie- 1989, cu care am **luat premiul I.**

23 **1989: Lidia Benea: "Acoperiri electrolitice cu metale si aliaje neferoase".**  
La Salonul de Inventica organizat de ICEM -Bucuresti în luna august 1989 am **luat premiul III** cu inventiile prezentate în domeniul : "Acoperiri electrolitice cu metale si aliaje neferoase".

22 **1989: Lidia Benea: " Procedeu de stanare a tevilor din alama "**  
La Salonul de Inventica organizat în anul 1989 la Gala i, am luat **premiul I** cu inventia: " Procedeu de stanare a tevilor din alama "

21 **1988: Lidia Benea: "Utilizarea straturilor de aliaje depuse electrochimic în protectii anticorozive"** Prezentat la al II- lea Congres de Chimie organizat în perioada 21-24 septembrie 1988 la Bucuresti la sectia Electrochimie.

20 **1988: Lidia Benea: "Utilizarea straturilor de aliaje depuse electrochimic în protectii anticorozive"** Prezentat la al II- lea Congres de Chimie organizat în perioada 21-24



septembrie 1988 la Bucuresti la sectia Electrochimie.

- 19 **1988: Lidia Benea: “Cercetari privind electrodepunerea straturilor subtiri de crom pe benzi din otel laminat la rece”**  
Prezentat la al II- lea Congres de Chimie organizat în perioada 21-24 septembrie 1988 la Bucuresti la sectia Electrochimie.
- 18 **1987: Lidia Benea: “Instalatii de depunere a metalelor, aliajelor si tratament al stratului depus prin procedee chimice si electrochimice”**  
**La Salonul de Inventica organizat la nivel judetean în anul 1987, am luat locul al II-lea cu acest inovatie.**
- 17 **1987: Lidia Benea: “Tehnologie de depunere a aliajelor plumb -staniu pe benzi din cupru 0,3 x 60 pentru fabricatia racitoarelor.”**  
In cadrul “Saptamânii Stiintei si Tehnicii pentru tineret” organizata în luna noiembrie 1987 la Galati, lucrare cu care am primit **premiul al II- lea** în cadrul concursului.
- 16 **1987: Lidia Benea: “Cercetari privind stabilirea tehnologiei de stanare chimica a tevilor din alama”**  
In cadrul “Saptamânii Stiintei si Tehnicii pentru tineret” organizata în luna noiembrie 1987 la Galati.
- 15 **1987: Lidia Benea: “Tehnologii de fabricatie a racitoarelor de aer”**  
În cadrul Consfaturii pe teme mecano- energetice si automatizari, organizate la Galati în perioada 8-9 octombrie 1987.
- 14 **1987: Lidia Benea: “Cercetari privind stabilirea tehnologiei de zincare electrochimica a benzilor înguste subtiri pentru protectia antiimplozie a tuburilor cinescop”**  
În cadrul celei de-a IX-a Sesiuni Tehnico-Stiinifice organizata de CCSITROA Brasov în luna iunie 1987.
- 13 **1987: Lidia Benea: “Cercetari privind electrodepunerea aliajelor pe benzi din otel laminat la rece “**  
În cadrul celei de-a IX-a Sesiuni Tehnico-Stiinifice organizata de CCSITROA Brasov în luna iunie 1987
- 12 **1986: Lidia Benea: “Reactivi selectivi pentru determinarea mercurului din apele poluate”.**  
La a III-a editie a Congresului “Zilele Balcanice ale Chimiei” am prezentat lucrarea.
- 11 **1986: Lidia Benea: “Tehnologie de depunere electrochimica a zincului pe benzi înguste, subtiri din otel laminat la rece pentru protectia antiimplozie a tuburilor cinescop”**  
În anul 1986 la Saptamâna Stiintei si Tehnicii pentru tineret am luat **premiul al II-lea** cu acest lucrare.
- 10 **1985: Lidia Benea: “Cercetari privind stabilirea tehnologiei de stanare**

**electrochimica a benzilor laminate la rece”**

În cadrul Saptamânii Stiintei si Tehnicii pentru tineret din anul 1985 am **luat premiul I.**

- 9 **1985: Lidia Benea: “Utilizarea otelurilor inoxidabile feritice la realizarea unor instalatii din industria alimentara”**  
În cadrul Sesiunii Tehnico-Stiintifice prilejuite de aniversarea a 25 ani de activitate a Institutului ICPPAM Galati desfasurata în perioada 27-28 septembrie 1985.
- 8 **1985: Lidia Benea: “Realizari privind reducerea consumului de zinc în procesul de zincare termica”**  
În cadrul Consfaturii Judetene cu tema: “Introducerea tehnologiilor avansate” din 26 iunie 1985
- 7 **1984: Lidia Benea: “Cercetari privind stabilirea tehnologiei de fabricatie a benzilor zincate electrochimic destinate industriei de autoturisme”**  
Lucrarea a fost prezentata si **premiata** în cadrul “Saptamânii Stiintei si Tehnicii pentru Tineret” din perioada 12-18 noiembrie 1984.
- 6 **1984: Lidia Benea: “Cercetari privind reducerea consumului de zinc si recuperarea acestuia din deseurile rezultate în procesul de zincare”**  
Prezentat la Sesiunea Stiintifica organizata de Universitatea Galati în perioada 7-8 noiembrie 1984.
- 5 **1984: Lidia Benea: “Cercetari privind înobilarea suprafetelor zincate prin tratamente chimice si electrochimice”.**  
Prezentat la Sesiunea Stiintifica organizata de Universitatea Galati în perioada 7-8 /11 1984.
- 4 **1983: Lidia Benea: “Tehnologii moderne de protectie a produselor din otel cu aliaje ale zincului cu aluminiu”.**  
Prezentat la a III-a Sesiune Stiintifica cu tema: “Noutati în fabricarea produselor plate din otel si în protectia suprafetelor acestora contra coroziunii” organizata la Galati la 14 octombrie 1983.
- 3 **1983: Lidia Benea: “Posibilitati de fabricare a tablelor plumbuite pe suport de zinc cu eliminarea staniului din aliajul plumb-staniu”**  
Prezentat la a III-a Sesiune Stiintifica cu tema: “Noutati în fabricarea produselor plate din otel si în protectia suprafetelor acestora contra coroziunii” organizata la Galati la 14 octombrie 1983.
- 2 **1983: Lidia Benea: “Tehnologii moderne de zincare a tablelor în proces discontinuu”** Prezentat la a III-a Sesiune Stiintifica cu tema: “Noutati în fabricarea produselor plate din otel si în protectia suprafetelor acestora contra coroziunii” organizata la Galati, 14 octombrie 1983.
- 1 **1983: Lidia Benea: “Contributii privitor la înlocuirea zincului cu aliaje zinc-aluminiu la acoperirea metalica de protectie a benzilor si sârmelor din otel prin imersie”**  
Prezentata la Sesiunea Stiintifica organizata de Institutul central de cercetari metalurgice, cu ocazia “Zilei Metalurgistului” din 7 septembrie 1983.

October 2020

Prof. univ. dr. (Ph.D.) Lidia BENEÀ

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