



## Curriculum vitae Europass



### Informații personale

Nume / Prenume

**BENEA Lidia**

Adres (e)

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Web page

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

<https://ro.linkedin.com/in/lidia-benea-b1546432/ro>

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

[https://www.researchgate.net/profile/Lidia\\_Benea](https://www.researchgate.net/profile/Lidia_Benea)

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

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

Naționalitate(-tăți)

Român

Sex

F

### Locul de muncă / Domeniul ocupational

**Profesor universitar dr. chim.**, Universitatea Dunărea de Jos din Galați, Facultatea de Inginerie, str. Domnească, nr. 47, 800008, Galați, România, Tel: +40 236 460754, Fax: +40 236 461353; / Educare, Cercetare, Formare.

**Conducere doctorat în științe Inginerești / Știința și Ingineria Materialelor – Materiale Avansate.**

[https://www.ugal.ro/files/doctorat/2019/3\\_SD-](https://www.ugal.ro/files/doctorat/2019/3_SD-SFI_Conducatori_doctorat_17012019.pdf)

[SFI Conducatori doctorat 17012019.pdf](https://www.ugal.ro/files/doctorat/2019/3_SD-SFI_Conducatori_doctorat_17012019.pdf)

**Director general al Centrului de Competențe Interfețe – Tribocoroziune și Sisteme Electrochimice (CC-ITES).**

[www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro)

**coala Doctoral de Științe Fundamentale și Inginerie**

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

### Interese științifice și domenii de expertiză

**Electrochimie aplicată știința și Ingineria Materialelor și Ingineria mediului.** Metode electrochimice pentru prepararea straturilor nano și micro structurate, acoperiri compozite și hibride (anorganic –organic), modificarea suprafețelor, straturi de oxizi subțiri, sau nanoporoși, suprafețe funcționale pentru a îmbunătăți rezistența la coroziune și tribocoroziune a materialelor în mediile specifice de utilizare. **Studii electrochimice la interfața (bio) material electrod / mediu specific (soluții).** Materiale avansate: **biomateriale, nanomateriale, straturi nanocompozite. Materiale polimerice** utilizate în sisteme membranare pentru nanofiltrare și transport transdermic sau materiale destinate implantării. **Caracterizarea suprafețelor materialelor** din punct de vedere structural (X-ray), morfologic (SEM), compozițional (EDX), microtopografic și proprietăți mecanice (microduritate,

nanoidentare).

## Experien a profesional

<b>Perioada</b>	<b>1991 - Prezent</b>
Func ia sau postul ocupat	<b>Profesor universitar doctor, Conduc tor doctorat: Ingineria Materialelor.</b> Director CC-ITES: Centrul de Competen  Interfe e-Tribocoroziune-Sisteme Electrochimice. Conferen  iar doctor. ef lucr ri doctor. Asistent.
Activit i i responsabilit i principale	Inv mânt. Cercetare fundamental i aplicativ , Programe interna ionale. <b>-Cursuri licen :</b> Tehnici de Analizã, Cristalografie i Mineralogie, Chimie Fizic , Coroziune i Protec  ii Anticorozive, Chimie General , Tehnologie Chimic , Elemente de Electrochimie i Corozine, <b>Interfa a material / esut.</b> <b>-Cursuri master:</b> <i>Superaliaje i compu i intermetalici, Materiale alternative. Strategii i proiecte europene în domeniul nanomaterialelor i nanotehnologiilor, Straturi de protec  ie nano i micro structurate, Materiale hibride i nanocompozite, Strategii de tratare a de eurilor, Electrochimie i coroziiune, Tehnologii avansate de protec ie a suprafe elor.</i> <b>Coordonator proiecte de dizerta  ie</b> în domeniile: Nanotehnologii i Materiale multi-func  ionale; Interac  iunea material -  esut, Coroziiune  i Protec  ii Anticorozive. <b>-Cursuri Doctorat:</b> Metode avansate de caracterizare a materialelor: Tehnici i metode electrochimice pentru studiul i evaluarea degrad rii materialelor în medii specifice. Caracterizarea suprafe elor prin m surarea unghiului de contact i a energiei libere pentru evaluarea biocompatibilit ii. <b>-Coordonator teze de doctorat</b> în domeniul  tiin  e Inginere  ti – Ingineria Materialelor. <b>-Organizarea lucr rilor practice de laborator la disciplinele:</b> chimie, coroziiune i protec ii anticorozive, electrodepuneri, cristalografie, tehnici de analiz , tehnologie chimic , electrochimie aplicat în ob inerea straturilor micro i nanostructurate i în caracterizarea materialelor prin metode electrochimice, microscopie optic i unghi de contact. <b>-Acorduri de colaborare bilateral</b> pentru stagii didactice i de cercetare pentru studen i i cadre didactice ERASMUS / SOCRATES cu Ecole Centrale Paris – Franta, Katholieke Universiteit Leuven-Belgium; Trento University- Italy; Minho University- Portugalia; Aquila University - Italia; Duisburg Essen University – Germania. <b>-Cercetare fundamental i aplicativ ca director de proiecte sau membru în echip , în granturi de cercetare na ionale i interna ionale în domenile:</b> Ob inere i caracterizare straturi compozite nanostructurate i microstructurate. Nanomateriale. Cercetare în domeniul protec iilor anticorozive i coroziiunii, mecanismul i cinetica degrad rii materialelor pasivabile în medii corozive specifice (de la medii industriale la biomedicale) în prezen a unei perturb ri mecanice (uzur ) - tribocoroziune, <b>modificarea suprafe elor materialelor i biomaterialelor prin ob inerea straturilor compozite nano i microstructurate, formarea i cre terea controlat a filmelor de oxizi nanoporo i sau formarea electrochimic controlat a hidroxiapatiei.</b>

<p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>-Programe internaționale europene:</b>          Membru în comitetul de management la proiecte europene <b>ESF – COST: 520, 521, 533, 532, D19, D33.</b>          Vice Chair proiect european COST D33. Proiecte internaționale bilaterale cu Universitatea Catolic Leuven (Belgia), Ecole Centrale Paris (Franța).  <b>-Proiecte internaționale bilaterale</b> cu Universitatea Catolic Leuven (Belgia), Ecole Centrale Paris (Franța).</p> <p>Universitatea Dunărea de Jos din Galați, Facultatea de Metalurgie, Tiin a Materialelor și Mediu. Str. Domnească nr 47, 800008 Galați.</p> <p>Învățământ universitar – Cercetare fundamentală și aplicativă.</p>
<p><b>Perioada</b></p> <p>Funcția sau postul ocupat</p> <p>Activități și responsabilități principale</p>	<p><b>Iunie 2000-Iunie 2001; Septembrie - Decembrie 2001; Februarie 2002; Septembrie - Decembrie 2002; Ianuarie – Decembrie 2003, Septembrie 2003 – Decembrie 2003; Februarie 2004; Mai – Iunie 2004; Iunie - Iulie 2005; Iunie – Iulie 2006; Decembrie 2007; Decembrie 2008; Iunie-Iulie 2009; Iunie-Iulie 2010; Octombrie 2011; Iulie 2013; Iunie – Iulie 2014.</b></p> <p><b>Profesor și cercetător invitat.</b></p> <p><b>Conducere de proiecte</b> cu studenții din anii IV și V în domeniul <i>coroziunii și protecțiilor anticorozive</i>, cinetica degradării materialelor metalice și biomaterialelor prin coroziune și uzur (<i>tribocoroziune</i>) în medii specifice de utilizare.</p> <p><b>Curs în limba franceză : Straturi compozite micro și nano-structurate - Tribocoroziune - oeluri și aliaje pasivabile.</b> Mecanismul și cinetica degradării materialelor pasivabile în medii corozive în prezența unei perturbări mecanice (uzura).</p> <p><b>Lucrări practice</b> (Travaux pratiques) de <i>Corrosion électrochimique și Tribocorrosion.</i></p> <p><i>TP-projets de Corrosion:</i> Studenții anul IV. Încadrare stagiași pre și post doctorali și studenții doctorat și <i>Formare prin Cercetare (Formation par la Recherche).</i></p> <p><b>Cercetare:</b></p> <ul style="list-style-type: none"> <li>-Etude de la corrosion des armatures de béton par les méthodes des impédances électrochimiques et polarisation lineaire.</li> <li>-Etude de l'action combinée du frottement et de la corrosion (tribocorrosion) dans les cas des alliages d'aluminium en présence des différents liquides de refroidissement.</li> <li>-Etude des mécanismes de tribocorrosion dans le cas d'aciers passivables.</li> <li>-Etude de mécanismes de tribocorrosion (straturi dure, straturi nano și microstructurate, sticle ionomere, materiale biocompatibile).</li> </ul> <p><b>Activități de predare și cercetare.</b></p> <p>Electrochimie aplicată. Electrodepunerea aliajelor metalice și compozite nanostructurate. Coroziunea și protecții anticorozive.</p> <p>Tribocoroziunea acoperirilor compozite nanostructurate și a metalelor și aliajelor pasivabile.</p> <p>Cursuri, lucrări practice și cercetare. Coordonator al studenților masteranzi și a proiectelor de cercetare cu privire la metodele experimentale și materialelor destinate implanturilor umane.</p> <p>Materiale de restaurare pentru structuri dentare de tip ionomer de sticlă modificat cu rășină. Acoperiri compozite obținute prin co-depunerea electrochimică.</p> <p><b>Co-Supervizor teză de doctorat.</b></p>

Numele și adresa angajatorului	ECOLE CENTRALE PARIS, FRAN A. Laboratoire Génie des Procédés – Matériaux. Grand Voie des Vignes, Chatenay Malaby, 92290 France.
Tipul activității sau sectorul de activitate	Învânt universitar – Cercetare: Ingineria materialelor. Biomateriale.
<b>Perioada</b>	<b>Martie 1999 - Iunie 2000, Iulie 2001, Iulie – August 2004, Mai 2007.</b>
Funcția sau postul ocupat	<b>Profesor și cercetător invitat.</b>
Activități și responsabilități principale	<b>Curs în limba engleză : Surface treatments to improve the corrosion and wear properties of materials.</b> Pentru studenții anului IV și V. La curs au participat și ingineri din producție interesați de domeniul tratamentelor electrochimice și ingineriei suprafețelor. 36 ore de curs/sem. <b>Laborator:</b> Amenajare, organizare și redactare lucrărilor practice de laborator pentru studenți privind electrodepunerea metalelor, aliajelor și materialelor nanocompozite. <b>Cercetare:</b> Electrodepunerea metalelor și materialelor compozite: obținerea și caracterizarea proprietăților de rezistență la coroziune și uzur în corelație cu compoziția chimică și structura acestora. Director proiect: <i>Nano – coatings obtained by electrodeposition.</i>
Numele și adresa angajatorului	Universitatea Trento, Facultatea de Ingineria Materialelor. Str Messiano nr 77, Trento Italia
Tipul activității sau sectorul de activitate	Învânt universitar – cercetare: Ingineria Materialelor.
<b>Perioada</b>	<b>1981-1990</b>
Funcția sau postul ocupat	Cercetător științific grad II, cercetător principal III, cercetător. Cadru didactic asociat.
Activități și responsabilități principale	<b>Cercetare:</b> 26 de lucrări de cercetare ca responsabil de contract, și 11 colaborator, în domeniile coroziunii, tehnologii de protecții anticorozive prin electrodepunere de metale și aliaje, straturi de conversie, asimilări de noi materiale și analize chimice. Prin noutatea soluțiilor propuse în contractele de cercetare conduse, am obținut 10 brevete de invenție și 35 de inovații în domeniu. La concursuri și conferințe științifice organizate la nivel județean și național am obținut 10 premii și diplome.
Numele și adresa angajatorului	ICPPAM (Institutul de Cercetări și Proiectări pentru Produse Plate și Acoperiri Metalice) GALATI.
Tipul activității sau sectorul de activitate	Cercetare.
<b>Perioada</b>	<b>Septembrie 1977 - 1980</b>
Funcția sau postul ocupat	Chimist.
Activități și responsabilități principale	Stagiul în producție, conform repartiției guvernamentale. Am desfășurat activitate în secțiile de producție, organizarea muncii și în laboratoare de controlul calității materiilor prime și produselor. Am realizat 3 studii tehnico-aplicative cu rezultate directe în instalațiile de

Numele și adresa  
angajatorului  
Tipul activității sau  
sectorul de activitate

pretratare a apei, optimizarea filtrelor de demineralizare și organizarea  
laboratorului de controlul calității.

Combinatul de Îngrijire Chimice Bacău.

Producție – Industrie chimică.

## Educație și

## formare

### Perioada

**1999 octombrie-noiembrie**

Calificarea / diploma  
obținută

Atestat stagiu post doctoral în **Electrochimie**.

Disciplinele principale  
studiate / competențe  
profesionale dobândite

Electrochimie.

Metode electrochimice pentru studiul materialelor.

Numele și tipul  
instituției de învățământ  
/ furnizorului de  
formare

Laboratoire: Physique des Liquides et Electrochimie, Université Pierre et  
Marie Curie, Paris - Franța.

Nivelul în clasificarea  
națională sau  
internă

Universitate Cercetare.

### Perioada

**Martie 1998-decembrie 1998**

Calificarea / diploma  
obținută

Atestat stagiu post doctoral **NATO** în știința Materialelor.

Disciplinele principale  
studiate / competențe  
profesionale dobândite

Electrochimie. Metode electrochimice în studiul suprafețelor. Coroziune.  
Depuneri compozite nano și microstructurate.

Numele și tipul  
instituției de învățământ  
/ furnizorului de  
formare

Ecole Centrale Paris, Franța.

Nivelul în clasificarea  
națională sau  
internă

Universitate. Inginerie. Ingineria materialelor.

### Perioada

**Martie – Iulie 1997**

Calificarea / diploma  
obținută

Grant de mobilitate individual **TEMPUS**, oferit de Comunitatea Europeană  
pentru a îmbunătăți cursurile de chimie, electrochimie și corozii.

Disciplinele principale  
studiate / competențe  
profesionale dobândite

Cercetări cu privire la studiul coroziei oțelului beton armat prin metode de  
spectroscopie de impedanță electrochimică și polarizare liniară.

Numele și tipul  
instituției de învățământ  
/ furnizorului de  
formare

ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY  
Malabry cedex, France.

Nivelul în clasificarea  
națională sau  
internă

Universitate. Inginerie. Ingineria materialelor.

### Perioada

**Martie 1992 – februarie 1996**

Calificarea / diploma obținută	<b>Doctorat.</b> <b>1996: Doctor în Chimie. Doctor of Science in Chemistry (Ph.D). Teză : <i>Obținerea și analiza structurală a straturilor compozite.</i></b>
Disciplinele principale studiate / competențe profesionale dobândite	Chimie fizică . Electrochimie. Știința Materialelor.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Dunărea de Jos, Galați.
Nivelul în clasificarea națională sau internațională	Universitate Cercetare.
<b>Perioada</b>	<b>Ianuarie 1994 – Septembrie 1995.</b>
Calificarea / diploma	Atestat stagiu doctoral. Bursă guvernamentală .
Disciplinele principale studiate / competențe profesionale dobândite	Electrochimie. <b>Metode electrochimice aplicate în Ingineria și Știința Materialelor.</b> Electrodepuneri metale aliaje și straturi compozite. Coroziunea materialelor.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Eotvos Lorand Budapesta, Ungaria. Academia de Științe Budapesta, Ungaria. Departamentul de Chimie – Fizică , H-1518 BUDAPEST 112; Po Box 32..
<b>Perioada</b>	<b>1978</b>
Calificarea / diploma	Certificat perfecționare în Asigurarea Calității Produselor
Disciplinele principale studiate / competențe profesionale dobândite	Calitate, Fiabilitate, Statistică .
Numele și tipul instituției de învățământ / furnizorului de formare	Ministerul Industriei Chimice.
Nivelul în clasificarea națională sau internațională	Universitar - Postuniversitar.
<b>Perioada</b>	<b>Sept. 1985- Iulie 1986</b>
Calificarea / diploma obținută	<b>Diploma de studii postuniversitare în Coroziune și protecții anticorozive</b>
Disciplinele principale studiate / competențe profesionale dobândite	Electrochimie. Coroziune și protecții anticorozive.
Numele și tipul instituției de învățământ / furnizorului de formare	Institutul Politehnic București. Facultatea de Chimie.
Nivelul în clasificarea națională sau internațională	Universitate. Cercetare.
<b>Perioada</b>	<b>Sept.1973 - Iulie 1977.</b>

Calificarea / diploma obținută

Disciplinele principale studiate / competențe profesionale dobândite

Numele și tipul instituției de învățământ / furnizorului de formare

Nivelul în clasificarea națională sau internațională

Licență în Chimie.

Chimie generală . Chimie anorganică . Chimie organică . Chimie fizică .  
Macromoleculă. Tehnologii chimice. Catalizatori și catalizatori. Electrochimie.  
Matematică . Fizică .

Institutul Politehnic București.  
Facultatea de Chimie.

Universitate.

## Aptitudini și competențe personale

Limba(i) matern(e)

Limba(i) străină(e)

Autoevaluare

Nivel european (\*)

Limba

Limba

**Română**

cunoscut(e)

În alegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conv.		Discurs oral		Exprimare scris	
C1	<b>Englez</b>	C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	<b>Francez</b>	C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
A2	<b>Italian</b>	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

**Competențe și abilități sociale**

-Spirit de echipă .

- Adaptabilitate bună de lucru în medii multiculturale dobândită din experiența de lucru în învățământ și cercetare la universități din Franța și Italia.

- Capacitate bună de comunicare dobândită din experiența de participare în proiecte europene ca și membru în Comitetul de Management și din proiectele internaționale bilaterale cu Franța și Belgia.

**Competențe și aptitudini organizatorice și manageriale**

► Capacitatea de a lucra individual dar și în echipă, bune competențe de comunicare.

Experiență în managementul cercetării la nivel național și European.

Coordinarea de oameni și proiecte în România în calitate de manager de proiect și manager al grupului de lucru precum și organizarea de cursuri și laboratoare practice pentru studenți la Universitatea "Dunărea de Jos" din Galați.

Administrarea bugete corespunzătoare proiectelor de cercetare manageriate.

► Coordinarea, administrarea de persoane, proiecte și studenți în timpul lucrului temporar în Franța, Italia și în perioadele menționate mai sus.

**Experiență managerială** rezultat din coordonarea multiplelor proiecte la nivel național și internațional. Din anul 1998 m-am preocupat de aderarea României la multe proiecte europene tip ESF-COST, propunând și teme de cercetare în colaborare cu parteneri externi membri ai acestor proiecte.

Participarea la managementul proiectelor respective, ca membru în comitetele de management mi-a confirmat valoarea științifică, astfel că în anul 2005 am fost aleasă ca **vice-chair** al acțiunii **COST D33 - Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial**

## Materials.

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

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

[http://www.cost.esf.org/domains\\_actions/mpns/Actions/521?parties#](http://www.cost.esf.org/domains_actions/mpns/Actions/521?parties#)

**COST 520 - Biofouling and Materials.**

<http://sirius.mtm.kuleuven.be/Research/COST/contacts.html>

**COST D19 – Chemistry - Chemical Functionality Specific to the Nanometer Scale.** [http://w3.cost.eu/index.php?id=188&action\\_number=D19](http://w3.cost.eu/index.php?id=188&action_number=D19)  
**Vice-Chair of COST D33 – Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials, Director of the Project.**

[http://w3.cost.eu/index.php?id=188&action\\_number=D33](http://w3.cost.eu/index.php?id=188&action_number=D33)

[http://www.cost.esf.org/library/publications/\(pbno\)/8](http://www.cost.esf.org/library/publications/(pbno)/8)

**COST 532 - WG3 Tribochemistry**

[http://ltds.ec-lyon.fr/cost532/final\\_report/COST532\\_scient\\_final\\_report.pdf](http://ltds.ec-lyon.fr/cost532/final_report/COST532_scient_final_report.pdf)

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

[http://w3.cost.eu/index.php?id=247&action\\_number=533](http://w3.cost.eu/index.php?id=247&action_number=533)

[;www.bioTribology.net](http://www.bioTribology.net)

**Experiență în formarea și coordonarea personalului.** Prin acordurile internaționale încheiate, am participat la formarea și specializarea cadrelor didactice și studenților din instituția noastră prin stagii și vizite la instituții de prestigiu din învățământul superior din Europa: Ecole Centrale Paris, Universitatea Trento - Materials Engineering (Italia), Universitatea Catolic Leuven (Belgia), Universitatea Minho (Portugalia).

#### Competențe și aptitudini tehnice

Competențe foarte bune în aparatură electrochimică specializată în studiul materialelor (potențostat-galvanostat, analizor frecvență), microscopie electronică de baleiaj, unghi de contact, ultramicrotopografie, etc. dobândit prin experiența de lucru la instituții din străinătate prin stagiile efectuate ca cercetător invitat.

Competențe în asigurarea calității dobândite prin cursuri de formare postuniversitare.

#### Competențe și aptitudini de utilizare a calculatorului

- Competențe foarte bune tehnice în lucrul cu calculatorul: Microsoft Office, Word, Excel, PowerPoint, Photo Paint, CorelDraw, Origin, Internet. Art work. Dobândite prin muncă, experiență proprie, prezenți de conferințe la multe seminarii și congrese internaționale.

#### Alte competențe și aptitudini

**Expertiză și recunoaștere internațională :**

**\*Din 2002:** Am fost aleasă **Chairman al WG 18 Tribocorrosion – Knowledge dissemination and training** în cadrul FEDERA IEI EUROPENE DE COROZIUNE.

**\*1998 –2010: Membru în Comitetul de Management al unor proiecte Europene ESF–COST.**

2004–2008, COST 533 Materials - Materials for Improved Wear Resistance of Total Artificial Joints.

2006–2010, COST D33-Chemistry - Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials.



2002-2006, COST D19 – Chemistry - Chemical functionality specific to the nanometer scale.

1999-2002, COST 520 – Materials - BIOFOULING AND MATERIALS.

1998-2002, COST 521 – Materials, CORROSION OF STEEL IN REINFORCED STRUCTURES.

**\*2003: Membru în Comitetul științific Internațional al Congresului EUROCORR 2003**, September 28 - October 2, 2003; Budapesta, Ungaria.

**\*2007: Membru în Comitetul științific Internațional al Internațional Conference on Biocorrosion of Materials, BIOCORYS 2007**, 11-14 June 2007, Paris, Franța.

**\*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: Membru în Comitetul științific Internațional 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 mai 2009, Cluj Napoca.

**\*2009: Membru în Comitetul științific UGALMAT 2009.**

**\*2010: Membru în Comitetul de organizare (Program). CPA 2010: Conferința de Coroziune și Protecție Anticorozivă 2010 - a V-a Conferința Națională cu Participare Internațională de Coroziune și Protecție Anticorozivă.**

**\*2011: Membru în Comitetul științific Internațional al VI International Materials Symposium MATERIAIS 2011, Guimarães, Portugal and VI International Materials Symposium MATERIAIS 2011, XV meeting of SPM - Sociedade Portuguesa de Materiais 18-20 April 2011, Guimarães, Portugal.**

**\*2011: Membru în Comitetul științific: 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 Galați, Romania.

**\*2011: Membru în Comitetul științific: International workshop research quality in doctoral school, increased industrial and international visibility (POSDRU 19524) / 13 – 14 July 2011.**

**\*2013 - 2019: Membru în Comitetul științific. Conferința științifică a colilor Doctorale din UDJ Galați, CSSD-UDJG 2013 Ediția I, II, III, IV Secția 3. Galați, 16-17 mai 2013, 15 – 16 Mai 2014, 4th-5th of June 2015, 2-3 Iunie 2016.**

**\*2013: Membru în Comitetul științific. The second international conference of young researchers “New trends in environmental and materials engineering” (TEME) 28 - 30 octombrie 2013, Galați, Romania.**

**\*2014 Chairperson 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, Galați, România.

[http://www.cc-ites.ugal.ro/Invitation\\_Workshop\\_NanoSurf\\_03\\_2014\\_&\\_PERFORM\\_2014.pdf](http://www.cc-ites.ugal.ro/Invitation_Workshop_NanoSurf_03_2014_&_PERFORM_2014.pdf)

2014: Membru în Comitetul științific: **International Conference - UgalMat 2014, 29 - 30 May 2014, Galați, Romania**

**2015: Chairperson 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.  
 Period: July 23, 2015. <http://www.hybioelect.ugal.ro>

**2018: SESSION CHAIRMAN** during plenary scientific session on **22. Education and Accreditation. International Multidisciplinary Scientific GeoConference SGEM**, 5-9 of July, 2018, Albena, Bulgaria.  
<https://sgem.org/>

**2019: Scientific Advisory Board - International Conference on Innovative Research** - EUROINVENT, 2019, 16-17 May, Iasi, Romania, Palace of Culture. [http://www.euroinvent.org/conference/?page\\_id=62](http://www.euroinvent.org/conference/?page_id=62)  
<http://www.euroinvent.org/cat/ICIR2019.pdf>

**2019: Chairman for Oral Session, Session 1. International Conference on Innovative Research** - EUROINVENT, 2019, 16-17 May, Iasi, Romania, Palace of Culture.  
[http://www.euroinvent.org/conference/?page\\_id=62](http://www.euroinvent.org/conference/?page_id=62)

**\*2015, 2017, 2019: Membru în Comitetul tiinific: International Conference - "New trends in environmental and materials engineering" (TEME)**, 21 – 23 October 2015, Galați, Romania.

**\*2015: Membru în Comitetul tiinific: International Conference PPE 2015. International Conference on Polymer Processing in Engineering.** Galati, Romania. September 24-26, 2015.

**\*2016: Membru în Comitetul tiinific: The 13th International Conference on Tribology, September 22-24, 2016 – Galați, ROMANIA, ROTRIB'16.**

**\*2016: Membru în Comitetul tiinific: Conference on Material Science & Engineering** 19-21 May 2016, Galati, Romania, UgalMat 2016.

**\*Chairperson al unor sesiuni în cadrul Congreselor interna ionale:**

- 2002: Chairman al Sesiunii "Coatings", in cadrul 15<sup>th</sup> International Corrosion Congress, 2002, Granada Spain.
- 1998: Chairman of Session "Deposition", International Society of Electrochemistry, 49<sup>th</sup> Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.
- 2003: Chaiman al sesiunii: "*Tribocorrosion Aspects of Coatings*" Eurocorr 2003.
- 2008: Co-chairman la Session 5 ORAL COMMUNICATIONS. *Sfantu Gheorghe* Hall (Chair: Dr. Srinivasa RAO, Prof. Lidia BENEĂ). 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\\_-2014\\_&\\_PERFORM\\_2014.pdf](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.

**-Chairperson Session 2, Room D: International Scientific Conference CORROSION 2014, Session 2**, 18 – 21 November 2014, Gliwice, Polonia.  
<http://www.corrosion2014.polsl.pl/index.php?lang=en>

**-2014: Moderator Sec iunea 3 (sala D03) la Conferin a colilor Doctorale - UDJG.**

**-2015: Moderator Sec iunea Session 2: Processing and Testing of Polymers and Composites II PPE 2015**

**-2015: Moderator Sec iunea 3 - Functional Materials & Nanotechnologies la Conferin a colilor Doctorale -UDJG.**

**\*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.

**\*Citare pe pagina web a Ecole Centrale Paris, Laboratoire Génie des Procédés et Matériaux, ca i contribu ii tiin ifice în domeniul *Physico chimie des interfaces*, adresa web:**

[http://www.lgpm.ecp.fr/publications/avecactes/interfaces/document\\_view?month=int=10&year:int=2006](http://www.lgpm.ecp.fr/publications/avecactes/interfaces/document_view?month=int=10&year:int=2006)

**Organizarea i administrarea programelor Socrates Erasmus încheiate cu partenerii externi pentru cadre didactice i studen i: Ecole Centrale Paris, Trento University, Katholieke Universiteit Leuven, Aquila University Italia. Acorduri bilaterale semnate în domeniul tiin ei i Ingineriei Materialelor.**

**Activitate peer-review i evaluare**

**EXPERT EVALUATOR i RAPPORTEUR:**

**2000-2019:** European Commission – RDG Science Research and Development, Engineering Science Panel, Engineering and Chemistry Panel. Identification: FP5: EE19981A24009.

FP6: EX2002B002205, FP7, Horizon 2020: ID EX2002B002205.

**2016-2019:** Expert evaluator ESF COST Programme and COST Actions. Intas Expert: ID-4458.

Expert CNCSIS 2004-2015.

**2004-2016:** Registrul Na ional Exper i (UEFISCDI): 2004-2015.

**EXPERT 2011 (UE): Agen ia Universitar a Francofoniei, noiembrie 2011.**

**EXPERT 2011 (UE): Research Promotion Foundation (RPF) of Cyprus. Octombrie 2011.**

**2012: Expert / evaluator: Program Capacit i, Modulul III, proiecte de cooperare bilateral , pentru cooperarea bilateral România-Argentina.**

**2012, 2016: Expert / evaluator: Program Cooperare European EUREKA-EUROSTARS.**

**2012, 2015:** Expert / evaluator: Capacit i, Modulul III, proiecte de cooperare bilateral , pentru cooperarea bilateral România-Moldova.

**2012: Expert / evaluator: Cooper ri bilaterale - Programul de actiuni Integrate Romania – Franta.**

**2013: Evaluare proiecte pentru cooperarea bilateral România-Ungaria, UEFISCDI, Programul Capacit i, Modulul III.**

**2014:** Evaluare PNII - Capacit i, proiecte de cooperare bilateral România-China pe domeniul 7. **Materiale, si produse inovative i 10: tiin e de baz ..**

**2015:** Expert evaluator: H2020-MSCA-ITN-2015 – 'Innovative Training Networks.EU remote evaluation, Februarie 2015.

**2015:** Expert evaluator H2020 NMP-19-2015: Materials for severe operating conditions, including added-value functionalities 2015.

**2015:** Expert evaluator: FP7 Mid term review meeting **FP7-PEOPLE-2013-ITN (EID) - SUSCOAT - 607882.**

**2015:** Expert evaluator of German-Egyptian Research Proposals related to

**application-oriented research in frame of the German-Egyptian Research Fund GERF.**

**2015-2017: Expert evaluator: H2020-MSCA-IF-2015- CHE, H2020 call H2020-MSCA-IF-2017.**

**2017-2019: Expert evaluator: H2020 EIC Fast Track to Innovation (EIC-FTI), Small and Medium-sized Enterprises (EASME).**

**2019: Expert evaluator - H2020-MSCA-IF-2019.**

**Scientific reviewer for ISI International Journals (Activitate de referenț tiin ific pentru articole trimise la jurnale interna ioale ISI):**

ACS Nano, ACS Applied Materials & Interfaces, 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, International Journal of Engineering, Science and Technology (IJEST), Journal of the Electrochemical Science and Engineering, Analyst, International Journal of Materials Research, Tribology International, Portugaliae Electrochimica Acta.

**2006-2012: Scientific Reviewer (Raportor tiin ific) for International Ph.D. Thesis (pentru teze de doctorat interna ionale în limba englez :**

**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:**

**\*Din 2006: Membru în Colectivul Editorial al revistei Coroziune i Protec ie Anticoroziv (CPA), lansat la Cluj-Napoca în octombrie 2006, sub coordonarea Universit ii Tehnice Cluj-Napoca. B: Corrosion and Anticorrosion Protection, ISSN 1842-0346.**

**\*Din 2010: Membru în Colectivul Editorial al revistei ISI: ISRN Corrosion. ISSN: 2090-8903 (Online) doi:10.5402/CORROSION.**

**\*Membru în Colectivul Editorial al revistei BDI: The Annals of Dunarea de Jos University of Galati, Fascicle IX. Metallurgy and Materials Science, ISSN 1453-083X.**

**Membru al  
asocia iilor  
profesionale**

**MEMBERSHIP:**

International Society of Electrochemistry (ISE) din 1995.

ECS - The Electrochemical Society Inc. (ECS USA) din 1998.

CEFRACOR (Societatea francez de coroziiune) France.

Royal Society of Chemistry (RSC) -UK din 2015.

Romanian Society of Chemistry (Societatea Roamân de Chimie) din 1999.

<p><b>Daniel Bunea Award For Excellence in Materials Engineering and Science</b></p>	<p><b>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.</b>  <b>Acordat de a 8-a Conferinta Internationala - 8th International Conference on Materials Science and Technologies – RoMat 2020.</b></p>
<p><b>Special CRYSTAL AWARD and CERTIFICATE SGEM 2018</b></p>	<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>
<p><b>DIPLOMA of SILVER MEDAL 2017</b></p>	<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 Diploma of Excellence 2017</b></p>	<p><b>ANGHEL SALIGNY DIPLOMA for excellence results as university professor position.</b>  <b>Awarded in 2017 by Engineering Faculty from Dunrea de Jos University of Galati.</b></p>
<p><b>Diploma de Excelen 2016</b></p>	<p><b>EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncuși-Humbert Curien".</b>  <b>Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI).</b></p>
<p><b>Diploma Anghel Saligny 2015</b></p>	<p><b>ANGHEL SALIGNY DIPLOMA for excellence results as university professor position.</b>  <b>Awarded in 2015 by Engineering Faculty from Dunrea de Jos University of Galati.</b></p>

ACS  
Certificate of  
Appreciation  
2011

**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.

Diplom de  
Excelen  
2010

**Diploma de excelen** pentru activitatea de cercetare în domeniul Corozii și Protecții Anticorozive.  
Excellence Diploma for Research Activity in Corrosion and Corrosion Protection.  
Conferit de Universitatea Tehnica Cluj –Napoca și BETAK S.A.

Permis de  
conducere

Categoria B

Realizări științifice

23 Cărți și capitole cărți.  
5 Editor: Muncă editorială pentru cărți și DVD proceeding.  
282 Articole publicate în reviste naționale și internaționale din care:  
•97 - Total lucrări științifice publicate în reviste și Volume Proceeding indexate ISI (Thomson Reuters - Clarivate Analytics) din care:  
•54 Lucrări științifice (articole) publicate în reviste cotate ISI Thomson Reuters (Clarivate Analytics).  
**-Impact factor (I.F.) cumulată = 129.943.**  
•43 Lucrări științifice publicate în Volume ISI Proceedings.  
•65 Lucrări științifice publicate în reviste BDI.  
•120 Lucrări științifice publicate în alte reviste naționale și în Conference Proceedings.  
351 Lucrări științifice prezentate ca: Lecturi invitate, Keynote, Oral și Postere la Conferințe Internaționale și Naționale (138 în perioada 2014-2020).  
► 65 Proiecte și rapoarte de cercetare științifică ca director sau membru în echipă.  
Autor a 11 certificate de inventator și 35 inovator.  
**2016: 1 Articol publicat în TOP 1 Journals în domeniul de cercetare: MATERIALS SCIENCE, COATINGS & FILMS, după AIS (Clasificare PRECISI-UEFISDCI-Ministerul Educației și Cercetării științifice.**

Indicatori

Responsabilități. Hirsch Index and citations

Recunoașterea  
științifică și  
academică

Responsabilități științifice și academice:

●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.

[https://www.ugal.ro/files/doctorat/2019/3\\_SD-SFI\\_Conducatori\\_doctorat\\_17012019.pdf](https://www.ugal.ro/files/doctorat/2019/3_SD-SFI_Conducatori_doctorat_17012019.pdf)  
<http://www.ugal.ro/studii/doctorat/conducere-executiva-iosud>

●2020-2024: Membru în Consiliul Na ional de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU), Comisia 7 - Ingineria i tiin a materialelor. Ordinul ministrului educației și cercetării 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)

●2016-2020: Membru în Consiliul Na ional de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU), Comisia 7 - Ingineria materialelor. Ordin Ministru: OMENCS nr. 4.106/10.06.2016.

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

●2012-2016: 1. Vicepresedinte Comisie de analiz a contesta iilor, Comisia 7 - Ingineria Materialelor la nivel de CNATDCU - Ministerul Educa iei i Cercet rii tiin ifice.

●2012-2016: Membru în Senatul Universit ii Dun rea de Jos din Gala i - i Membru în Comisia de Cercetrare a Senatului.

●2012-2016, 2016-2020: Membru in Consiliul colilor Doctorale (CSUD) - IOSUD -Universitatea Dun rea de Jos din Gala i.

●Director of Research(Competences) Center Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES) at “Dun rea de Jos” University of Gala i (institutional accreditation 2007).

[www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro)

●Coordonator al Erasmus Programmes cu Ecole Centrale Paris - France, Katholieke Universiteit Leuven - Belgium, Duisburg - Essen University - Germany, Trento University - Italy, Aquila University - Italy.

### 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, 1329 for 2015-2019 period:

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

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

● 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>

Researcher ID web page:

<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.

Îndeplinire

Standarde profesor habilitare: CNATDCU  
Comisia 7 - Ingineria și Știința materialelor  
Domeniul Ingineria Materialelor.

Domeniul:  
Știința Ingineriei și  
Știința materialelor

Condiții	Îndeplinire condiții	
A. Doctor	DIPLOMA DE DOCTOR Seria N, Nr. 001335, emisă în baza Ordinului Ministrului Învățământului nr. 3543 din 03 aprilie 1998.	
B. Îndeplinirea standardelor minime naționale conform: Ordinului ministrului educației, naționale și cercetării științifice nr. 6129 / 2016. [MENCs nr. 6129/2016] [Susținere abilitare, Domeniul <i>Ingineria Materialelor</i> , Comisia CNATDCU [Anexa nr. 7].	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 7 - COMISIA DE INGINERIA ȘI ȘTIINȚA MATERIALELOR. Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
Condiții minime Profesor [Punctaj]	Minim prevăzut	Realizat/ punctaj și % / Raport
(A1). Activitatea didactică și profesională.	60	399,69 666.15 % <b>Raport = 6.66</b>
(A2). Activitatea de cercetare.	320	3009,63..... 940,50 % <b>Raport = 9.40</b>
(A3). Recunoașterea și impactul activității (A3)	120	8316,39 6930.32 % <b>Raport = 69,30</b>
<b>TOTAL A</b>	<b>500</b>	<b>11725,71, 2345,14 %</b> <b>Raport = 23.45</b>
Condiții minime obligatorii pe subcategorii [Număr]	Minim prevăzut	Realizat
A1: Activitatea didactică și profesională	60	399.69
A1: 1.1. Cărți și capitole în carti de specialitate.	-	9 din care



1.1.1 Cărți / capitole ca autor: 1.1.1.1. Internaționale	-	3 - internaționale 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 din care: 6 prim autor
1.1.2 Cărți/ capitole ca editor	-	4
A1: 1.2. Material didactic / Lucrări didactice	-	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>
A2: 2.1. Articole în reviste cotate ISI Thomson Reuters și în volume indexate ISI proceedings	15	95
Din care: Minim 10 în Reviste cotate ISI Th.R.	10	52
Minim 5 lucrări în 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
A2: 2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale [BDI], în specificul postului scos la concurs.	-	83,50
A2: 2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale [BDI], în specificul postului scos la concurs.	-	Realizat: 64 din care: 36 în Anale BDI (B+) 28 în Vol. Conf. BDI
A2: 2.3. Brevete de invenție	-	11 brevete 2.49 puncte
A2: 2.3.1. Naționale		2.49
A2: 2.4. Granturi/proiecte de cercetare câștigate prin competiție / Contracte cu agenți economici, minim 10000 echivalent Euro încasați. [punctaj]		670
A2: 2.4. Granturi/proiecte de cercetare câștigate prin competiție / Contracte cu agenți economici, minim 10000 echivalent Euro încasați. [condiții minimale].	2	14: din care: 11 Internaționale. 3 Naționale.
A2: 2.1. Granturi/proiecte de cercetare ca Director .	1	11 Director Internaționale 3 Director naționale
<b>A3: Recunoașterea și impactul activității</b>	<b>120</b>	<b>8316,39</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).	-	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	-	necalculat
A3: 3.2. Prezentări invitate prezentate în plenum unor conferințe naționale și internaționale și Profesor invitat (exclusiv Erasmus).	-	400
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.	-	118
A3: 3.4. Expert evaluare proiecte cercetare	-	2100

Indeplinire

Standarde profesor habilitare: CNATDCU Comisia 4 - Chimie

Domeniul:  
Chimie

CATEGORIE	Profesor/CS 1/Habilitare		Grad de îndeplinire %
	Criteriu	PUNCTAJ	
N <sub>max</sub>	Standard	50	Indeplinit
	Realizat	50 Luat în considerare 48 articole publicate în jurnale cotate ISI (Clarivate Analytics), 2 capitole în c r i 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) (f r autocit ri)	Standard	13	169.23%
	Realizat	22 WOS	

**Legend :**

**$N_{\max}$**  Primele maxim  $N$  lucruri aezate în ordinea descrescătoare a factorilor de impact.

**Hirsch index (h) – minim 13.**

**FIC - minim 100 (factorul de impact cumulat minimal al revistelor în care s-au publicat lucrurile 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 publicații în calitate de autor principal.

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

Octombrie 2020

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 BENEÀ**

*“Dunarea de Jos” University, Galati, Romania*

**Radu ȘTEFĂNOIU**

Dean  
 Faculty Materials Science and Engineering  
 University POLITEHNICA of Bucharest

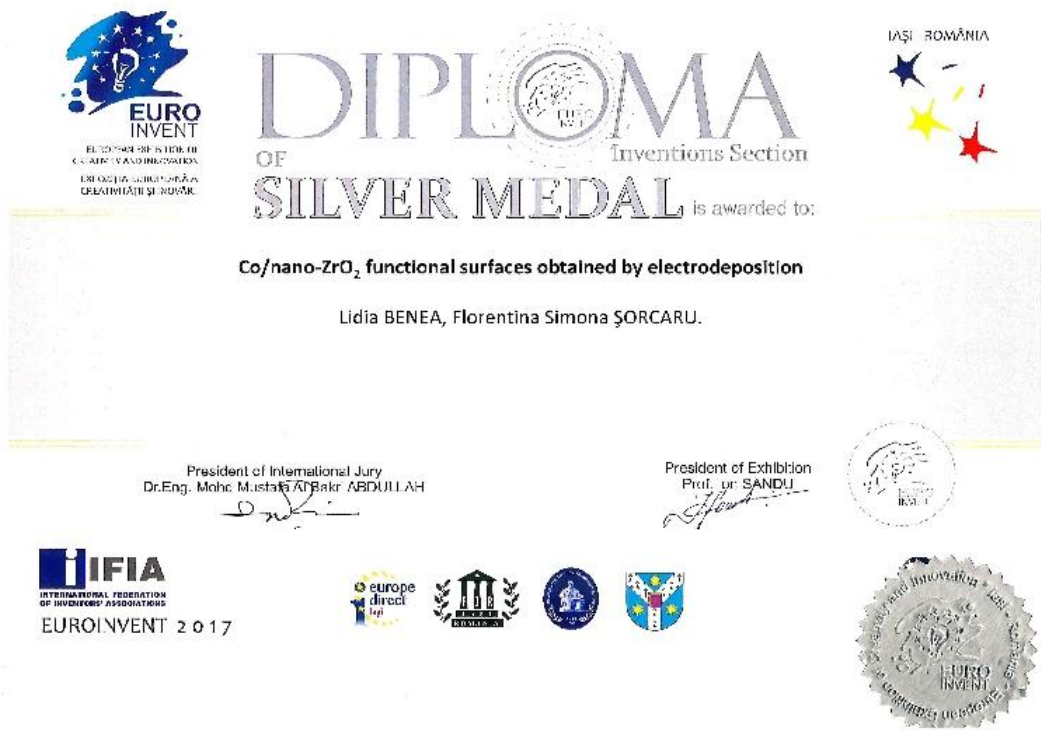
**Iulian Vasile ANTONIAC**

ROMAT 2020 President  
 Faculty Materials Science and Engineering  
 University POLITEHNICA of Bucharest

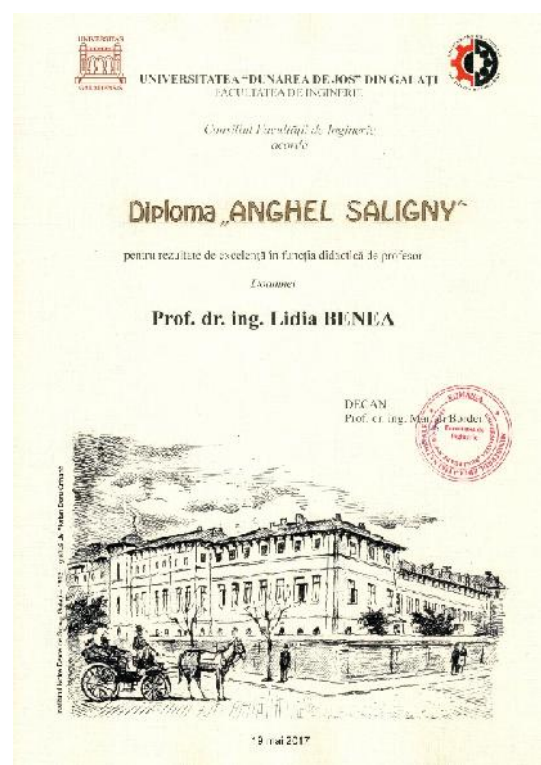
**Special CRYSTAL AWARD and CERTIFICATE SGEM 2018: Awarded by Scientific Chairmen of the SGEM 2018 Conference as Best presenters awarded with special CRYSTAL AWARD and CERTIFICATE! of 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30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



**SILVER MEDAIL - DIPLOMA**  
**for invention: Co/nano-ZrO<sub>2</sub> functional surfaces obtained by electrodeposition.**  
**Awarded in 2017 by EUROINVENT 2017 - EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION.**



**ANGHEL SALIGNY - EXCELLENCE DIPLOMA**  
**for excellence results as university professor position.**  
**Awarded in 2017 by Engineering Faculty from Dun rea de Jos University of Galati.**

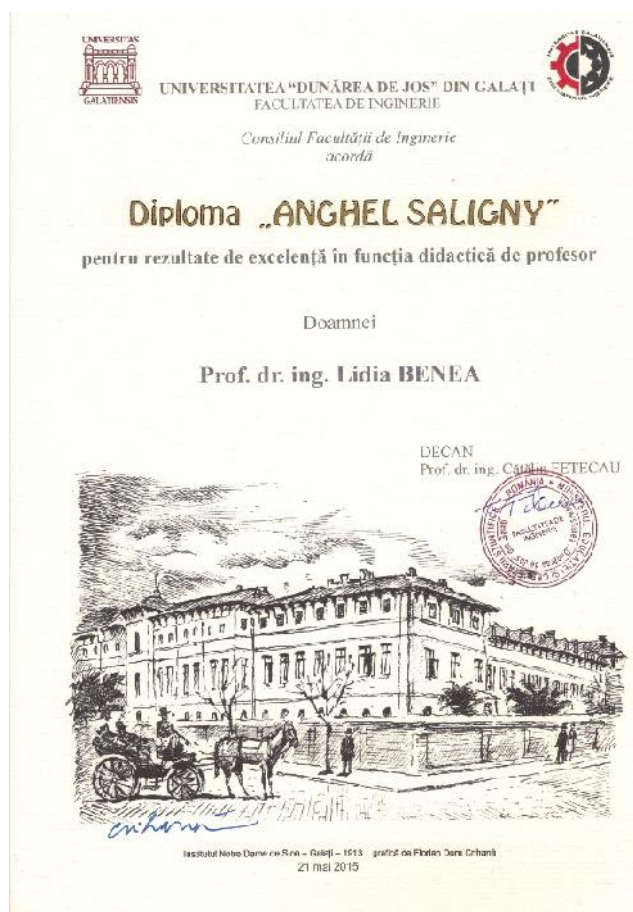


**EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncu i-Humbert Curien".**

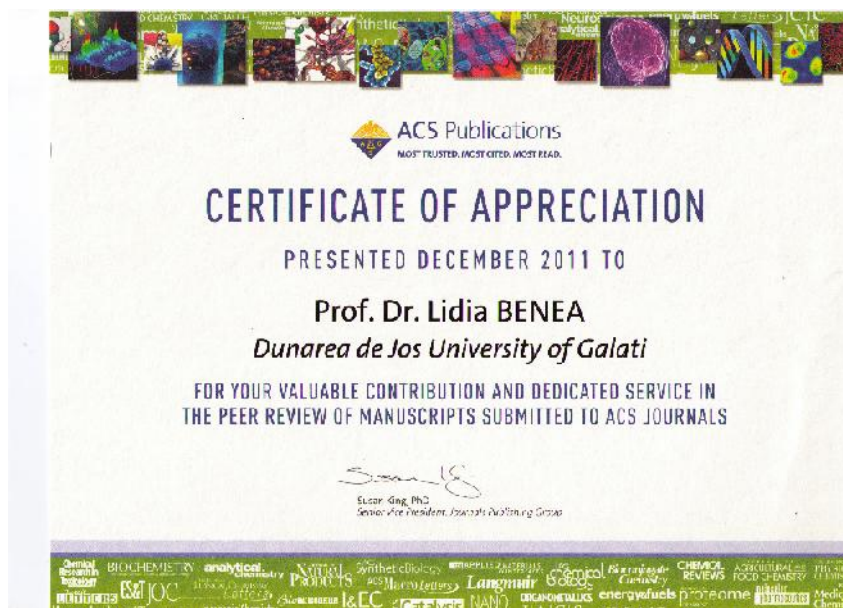
**Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI)**



**ANGHEL SALIGNY DIPLOMA for excellence results as university professor position. Awarded in 2015 by Engineering Faculty from Dun rea 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

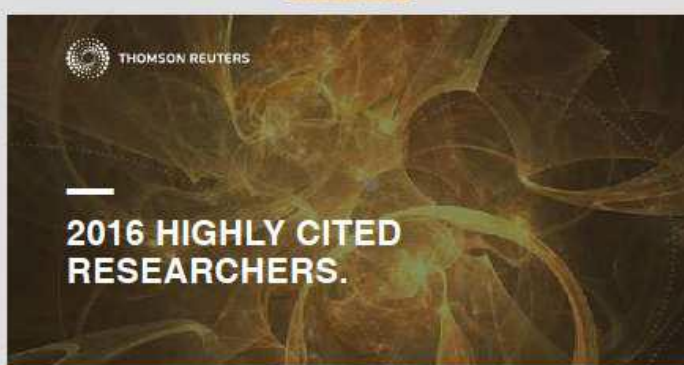


**Excellence Diploma 2010**  
acordat de Universitatea Tehnică Cluj Napoca și Societatea BETAK pentru activitatea deosebită în domeniul Coroziei și Protecției Anticorozive.  
**Excellence Diploma for Research Activity in Corrosion and Corrosion Protection.**  
Awarded by: Technical University of Cluj–Napoca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





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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!

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- 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,

Vin Caraher

Octombrie 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 <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim	F.I. / SRI	I /
		autor / P.A.	F. I. Cumulat	RO*
<b>TOTAL</b>		<b>33</b>	<b>129.943</b>	<b>35 / 20</b>

54	Lidia Benea, Laurentiu Mardare. The effect of polymeric protective layers and the immersion time on the corrosion behavior of naval steel in natural seawater. <b>Journal of Materials Research and Technology</b> , 2020, Volume 9, Issue 6, November–December 2020, Pages 13174-1318. ISSN: 2238-7854.	Q1 5.289 /  SRI=3.084
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N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) 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> <a href="https://www.sciencedirect.com/science/article/pii/S223878542031783X">https://www.sciencedirect.com/science/article/pii/S223878542031783X</a>			
53	Veaceslav Neaga, Lidia Benea*, Andrada Alexandru. <b>316L Stainless Steel Alloys for Orthodontic Application: Effect of Fluorinated Toothpaste on the Corrosion Behavior in Human Saliva.</b> <b>International Journal of Electrochemical Science</b> (Int. J. Electrochem. Sci.), 15 (2020) 9568 – 9578. doi: 10.20964/2020.10.17 <a href="http://www.electrochemsci.org/papers/vol15/151009568.pdf">http://www.electrochemsci.org/papers/vol15/151009568.pdf</a> <a href="http://www.electrochemsci.org">www.electrochemsci.org</a> ISSN 1452-3981		Q3 1.573 /  SRI=0.416	
52	Benea, Lidia; RavoIU, Anca; Celis, Jean Pierre. <b>Anticorrosion performance of the electrochemically grown mixed porous oxide films on titanium alloy in biological solution.</b> <b>ACS Biomaterials Science &amp; Engineering.</b> ACS Biomater. Sci. Eng. 2019, 5, 11, 5925-5934. Publication Date:September 26, 2019. ID: ab-2019-006266 ISSN: 2373-9878. <a href="https://doi.org/10.1021/acsbiomaterials.9b00626">https://doi.org/10.1021/acsbiomaterials.9b00626</a> <a href="https://pubs.acs.org/doi/abs/10.1021/acsbiomaterials.9b00626">https://pubs.acs.org/doi/abs/10.1021/acsbiomaterials.9b00626</a> <b>Cite this:</b> ACS Biomater. Sci. Eng. 2019, 5, 11, 5925-5934 Publication Date:September 26, 2019 <a href="https://doi.org/10.1021/acsbiomaterials.9b00626">https://doi.org/10.1021/acsbiomaterials.9b00626</a> <b>Copyright © 2019 American Chemical Society.</b>		Q1 4.511 / 1.587	
51	Lidia Benea, Nicoleta Simionescu, Jean Pierre Celis. <b>Electro-codeposition of CeO2 nanoparticles into cobalt matrix to improve the tribocorrosion performances of Co/nano CeO2 composite layers in biological solution for medical applications</b> <b>Reference: JMBBM_103443</b>		Q1 3.485 / / 1.492	

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

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) 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> <b>Progress in Organic Coatings</b> , 2018, vol 123, p. 120-127. <a href="https://doi.org/10.1016/j.porgcoat.2018.06.020">https://doi.org/10.1016/j.porgcoat.2018.06.020</a> <b>Impact Factor = 3.420</b>		3.420 / AIS= 1.526	
46	VALENTIN MARIAN DUMITRA CU, <b>LIDIA BENEÀ</b> <b>Improving The Corrosion Behavior Of 6061 Aluminum Alloy By Controlled Anodic Formed Oxide Layer.</b> <b>Revista de Chimie.</b> 68 No. 1 2017, p. 77-80. Journal ISSN: 0034-7752 Online and Print Journal. REV.CHIM.(Bucharest) 68 No. 1 2017, p. 77-80. <a href="http://www.revistadechimie.ro">http://www.revistadechimie.ro</a> <a href="http://www.revistadechimie.ro/pdf/DUMITRASCU%20V%20M%20I%202017.pdf">http://www.revistadechimie.ro/pdf/DUMITRASCU%20V%20M%20I%202017.pdf</a>		Q3 1.605 AIS = 0.140	
45	<b>Lidia Benea, Eliza Danaila</b> <b>Nucleation and growth mechanism of Ni/TiO<sub>2</sub> nanoparticles electro-codeposition.</b> <b>Journal of The Electrochemical Society</b> , 2016, 163 (13), pp. D655 - D662. ISSN: 0013-4651 <b>IF=3.120</b> TOP 1 dupa AIS 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> <a href="http://www.wos.org/wos/doi/10.1149/2.0591613jes">WOS:000389155900073</a> .	PA-26	Q1 3.120 AIS = 1.923	I-29
	<b>TOP 1 în domeniul:</b> <b>MATERIALS SCIENCE, COATINGS &amp; FILMS</b> <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>			
44	Eliza Danaila, <b>Lidia Benea</b> *, Nadège Caron, Olivier Raquet; <b>Titanium Carbide Nanoparticles Reinforcing Nickel Matrix for Improving Nanohardness and</b>		Q1 1.647	I-28

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
	<p><b>Fretting Wear Properties in Wet Conditions.</b>  <b>Metals and Materials International</b>  September 2016, Volume 22, <a href="#">Issue 5</a>, pp 924–934  2018 Impact Factor =1.647  doi: <a href="https://doi.org/10.1007/s12540-016-6090-x">10.1007/s12540-016-6090-x</a>.  ISSN: 1598-9623  First Online: <a href="#">19 August 2016</a>  Cite this article as:  D n il , E., Benea, L., Caron, N. et al. Met. Mater. Int. (2016) 22: 924.  doi:10.1007/s12540-016-6090-x</p>		<p>/  <b>SRI=1.153</b>  <b>Red after IF</b></p>	
43	<p>Alina Crina CIUBOTARIU, <b>Lidia BENEÀ</b>, Pierre PONTIAUX<sup>b</sup>  <b>Corrosion resistance of Zinc-Resin hybrid composite coatings obtained by electro-codeposition</b>  <b>Arabian Journal of Chemistry.</b>  ISSN: 1878-5352  doi:<a href="https://doi.org/10.1016/j.arabjc.2016.07.002">10.1016/j.arabjc.2016.07.002</a>  <a href="http://www.sciencedirect.com/science/article/pii/S1878535216301009">http://www.sciencedirect.com/science/article/pii/S1878535216301009</a>  <b>IF = 3.298</b></p>		<p><b>Q1</b>  <b>3.298</b>  <b>AIS 1.558</b>  <b>Red after IF</b></p>	I-27
42	<p><b>Lidia Benea</b>, Nadege Caron and Olivier Raquet.  <b>Tribological behavior of Ni matrix hybrid nanocomposite reinforced by titanium carbide nanoparticles during electro-codeposition.</b>  <b>RSC Advances.</b> RSC Advances, 2016, <b>6</b>, 59775 - 59783.; RSC Advances, 2016,  DOI: <a href="https://doi.org/10.1039/C6RA03605H">10.1039/C6RA03605H</a>  <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>  ISSN: 2046-2069</p>	P.A. = 25	<p><b>Q1</b>  <b>3.049</b>  <b>AIS</b>  <b>1.472</b></p>	I-26
41	<p><b>Lidia Benea</b> and Jean-Pierre Celis.  <b>Effect of Nano-TiC Dispersed Particles and Electro-Codeposition Parameters on Morphology and Structure of Hybrid Ni/TiC Nanocomposite Layers. ;</b>  <b>Materials</b>, 2016, 9(4), 269.  doi:<a href="https://doi.org/10.3390/ma9040269">10.3390/ma9040269</a> ;</p>	P.A. = 24	<p><b>Q2</b>  <b>2.972</b>  <b>AIS 1.405</b></p>	I-25

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I/ RO*
	<a href="http://www.mdpi.com/1996-1944/9/4/269">http://www.mdpi.com/1996-1944/9/4/269</a> ISSN 1996-1944 Galben: pozitia 67: <b>MATERIALS SCIENCE, MULTIDISCIPLINARY</b>			
40	<b>Lidia Benea, Eliza Danaila, Pierre Ponthiaux.</b> <b>Effect of titania anodic formation and hydroxyapatite electrodeposition on electrochemical behaviour of Ti-6Al-4V alloy under fretting conditions for biomedical applications.</b> <b>Corrosion Science</b> , Volume 91, February 2015, Pages 262–271. Available online 21 November 2014. ISSN: 0010-938X <a href="https://doi.org/10.1016/j.corsci.2014.11.026">doi:10.1016/j.corsci.2014.11.026</a> <a href="http://www.sciencedirect.com/ux4ll8xu6v.useaccesscontrol.com/science/article/pii/S0010938X14005472">http://www.sciencedirect.com/ux4ll8xu6v.useaccesscontrol.com/science/article/pii/S0010938X14005472</a>	P.A. - 23	<b>Q1</b> 6.355 AIS 3.942	I - 24
39	<b>Lidia BENEÀ, Sorin – Bogdan BA A, Eliza D n il , Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS</b> <b>Fretting and wear behaviors of Ni/nano-WC composite coatings in dry and wet conditions.</b> <b>Materials and Design</b> 65 (2015) 550–558. ISSN: 0261-3069. Online 2 oct 2014., publicat 14 oct 2014. <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> <a href="http://www.sciencedirect.com/science/article/pii/S0261306914007523">http://www.sciencedirect.com/science/article/pii/S0261306914007523</a>	P.A. - 22	<b>Q1</b> 5.770 AIS 2.595	I – 23
38	<b>Lidia Benea, Eliza Mardare - Danaila, Jean-Pierre Celis.</b> <b>Increasing the tribological performances of Ti-6Al-4V alloy by forming a thin nanoporous TiO2 layer and hydroxyapatite electrodeposition under lubricated conditions.</b> <b>Tribology International</b> . Tribology International 78 (2014) 168–175. <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/&	P.A. - 21	<b>Q1</b> 3.517 AIS 1.666	I - 22
37	<b>Lidia Benea, Eliza Danaila, Jean-Pierre Celis,</b>	P.A. -	<b>Q1</b>	I - 21

$N_{ref}$	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
	<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> Materials Science & Engineering A. Materials Science and Engineering: A, Volume 610, 29 July 2014, Pages 106-115. <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>	20	4.081 AIS 2.959	
36	<b>Lidia Benea, Eliza Mardare, Marilena Mardare, Jean-Pierre Celis.</b> <b>Preparation of titanium oxide and hydroxyapatite on Ti-6Al-4V alloy surface and electrochemical behaviour in bio-simulated fluid solution.</b> Corrosion Science 80 (2014) pp. 331–338. ISSN: 0010-938X. 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 6.355 AIS 3.942	I - 20
35	<b>Lidia BENEÀ, Alina CIUBOTARIU, Wolfgang SAND.</b> <b>Biofilm formation and corrosion resistance of Ni/SiC nanocomposite layers.</b> International Journal of Materials Research. 103 (2012) E page 1-9. (2013) Vol. 104, No. 5, pp. 489-497. ISSN: 1862-5282. DOI <a href="https://doi.org/10.3191/146.110893">10.3191/146.110893</a> .	P.A. - 18	Q1 0.748 AIS 0.579	I - 19
34	A. I. PAVLOV, L. BENEÀ, J.-P. CELIS, L. VAZQUEZ, <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> Digest Journal of Nanomaterials and Biostructures. Vol. 8, No. 3, July - September 2013, p. 1043 - 1050. ISSN: 1842 – 3582. <a href="http://www.chalcogen.infim.ro/1043_Benea.pdf">http://www.chalcogen.infim.ro/1043_Benea.pdf</a>	-	Q3 0.638 AIS 0.243	RO-16
33	<b>Lidia BENEÀ.</b> <b>Electrochemical Impedance Spectroscopy and Corrosion Behavior of Co/CeO<sub>2</sub> Nanocomposite Coatings in Simulating Body Fluid Solution.</b>	P.A. - 17	Q1 1.985 AIS	I - 18

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I/ RO*
	Metallurgical and Materials Transactions A. Vol 43A, pp 1-9, 2012 (November). ISSN 1073-5623. VOLUME 44A, FEBRUARY 2013. p1114-1122. <a href="https://doi.org/10.1007/s11661-012-1422-z">DOI: 10.1007/s11661-012-1422-z</a> .		2.066	
32	Eliza Mardare, Lidia BENEÀ, and Jean-Pierre Celis. Novel Nano-TiO <sub>2</sub> layer preparation on Ti-6Al-4V support alloy and their characterization. Digest Journal of Nanomaterials and Biostructures. Issue 3, July-September 2012, pp. 933-939. ISSN 1842 – 3582. <a href="http://www.chalcogen.infim.ro/933_Mardare.pdf">http://www.chalcogen.infim.ro/933_Mardare.pdf</a> <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> <a href="https://lirias.kuleuven.be/handle/123456789/361738">https://lirias.kuleuven.be/handle/123456789/361738</a>		Q3 0.638 AIS 0.243	RO-15
31	Stefan Balta, Arcadio Sotto, Patricia Luis, Lidia Benea, Bart Van der Bruggen, Jeonghwan Kim. A new outlook on membrane enhancement with nanoparticles: the alternative of ZnO. Journal of Membrane Science. Volume 389, 1 Feb. 2012. pp. 155-161. ISSN: 0376-7388. <a href="https://doi.org/10.1016/j.memsci.2011.10.025">doi:10.1016/j.memsci.2011.10.025</a>	-	Q1 7.015 AIS 3.818	I - 17
30	L. Benea; S. F. Sorcaru; P. Ponthiaux; F. Wenger. Electrosynthesis and performances of cobalt-ceria nanocomposite biocoatings. Advances in Applied Ceramics. online 27 December 2011. Vol. 111, Nr 3, April 2012 ,pp. 134-141(8). ISSN: 1743-6753. <a href="https://doi.org/10.1179/1743676111Y.0000000068">DOI: http://dx.doi.org/10.1179/1743676111Y.0000000068</a>	P.A. - 16	Q2 1.429 AIS 1.413	I - 16
29	Lidia BENEÀ, Pierre PONTIAUX, Francois WENGER. Co-ZrO <sub>2</sub> electrodeposited composite coatings exhibiting improved micro hardness and corrosion behaviour in simulating body fluid solution. Surface & Coatings Technology. 205, 2011. 5379-5386. ISSN: 0257-8972. <a href="https://doi.org/10.1016/j.surfcoat.2011.05.050">DOI: 10.1016/j.surfcoat.2011.05.050</a> .	P.A. - 15	Q1 3.192 / AIS= 1.464	I - 15
28	L. Benea, M. Mardare-Pralea. Electrodeposition of UHMWPE particles with cobalt for biomedical applications. Digest Journal of Nanomaterials and Biostructures. Volume 6, Number 3, July-September 2011, p-p. 1025-1034. ISSN 1842 – 3582.	P.A. - 14	Q3 0.638 AIS 0.243	RO-14

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I/ RO*
	<a href="http://www.chalcogen.infim.ro/1025_Benea.pdf">http://www.chalcogen.infim.ro/1025_Benea.pdf</a> <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>			
27	A. C. Ciubotariu, L. Benea, P. L. Bonora. <b>Corrosion studies of carbon steel X60 by electrochemical methods.</b> <b>Journal of optoelectronics and advanced materials. Volume: 12, Issue: 5 Published: MAY 2010, pp. 1170-1175. ISSN: 1454-4164.</b> <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 0.588 AIS 0.169	RO-13
26	<b>Lidia Benea,</b> <b>Electrodeposition and tribocorrosion behaviour of ZrO<sub>2</sub>-Ni composite coatings.</b> <b>Journal of Applied Electrochemistry. (2009) 39 1671-1681. ISSN: 0021-891X.</b> <b>DOI: 10.1007/s10800-009-9859-5.</b>	P.A. - 13	Q1 2.366 AIS 0.871	I 14
25	<b>L. Benea, F.Wenger, P. Ponthiaux, J.P. Celis.</b> <b>Tribocorrosion behaviour of Ni-SiC nano-structured composite coatings obtained by electrodeposition.</b> <b>Wear. Volume: 266, Issue: 3-4, Published: 2009, 398-405. ISSN: 0043-1648.</b> <b>DOI: 10.1016/j.wear.2008.04.018.</b>	P.A. - 12	Q1 2.950 AIS 1.687	I - 13
24	A. C. Ciubotariu, L. Benea, O. Mito eriu, P. Ponthiaux, F. Wenger. <b>Influence of particles size on the morphology and corrosion behaviour of phenol – formaldehyde/Zn composite coatings obtained by electrodeposition. Journal of optoelectronics and advanced materials. Volume: 11, Issue: 6 Published: 2009, pp. 892-897. ISSN: 1454-4164</b> <a href="http://joam.inoe.ro/download.php?idu=1973">joam.inoe.ro/download.php?idu=1973</a> <a href="http://cat.inist.fr/?aModele=afficheN&amp;cpsidt=21655116">http://cat.inist.fr/?aModele=afficheN&amp;cpsidt=21655116</a>	-	Q3 0.588 AIS 0.169	RO-12
23	Felicia Bratu, Lidia Benea, Jean-Pierre Celis. <b>The influence of fretting parameters on tribocorrosion behaviour of AISI 304L stainless steel in ringer solution. Revista de Chimie. 59 (3), Published: 2008, p. 346-350. ISSN: 0034-7752.</b> <a href="http://www.revistadechimie.ro/pdf/BRADU%20F.pdf">http://www.revistadechimie.ro/pdf/BRADU%20F.pdf</a>	-	Q3 1.605 AIS 0.140	RO-11



N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
22	A. C. Ciubotariu, L. Benea, M. Lakatos–Varsanyi, V. Dragan. Electrochemical impedance spectroscopy and corrosion behaviour of Al <sub>2</sub> O <sub>3</sub> -Ni nano composite coatings. Electrochimica Acta. 53 (13), 2008, 4557-4563. ISSN: 0013-4686. DOI: 10.1016/j.electacta.2008.01.020.	-	Q1 5.383 AIS 1.766	I - 12
21	Felicia Bratu, Lidia Benea, Jean-Pierre Celis. Tribocorrosion behaviour of Ni–SiC composite coatings under lubricated conditions. Surface & Coatings Technology. 201, 2007, 6940–6946. ISSN: 0257-8972. DOI: 10.1016/j.surfcoat.2006.12.027.	-	Q1 3.192 AIS 1.464	I - 11
20	A. Berradja, F. Bratu, L. Benea, G. Willems and J.-P. Celis. Effect of sliding wear on tribocorrosion behaviour of stainless steels in a Ringer's solution. Wear. Volume 261, Issue 9, 20 November 2006, 987-993. ISSN: 0043-1648. DOI: 10.1016/j.wear.2006.03.003.	-	Q1 2.950 AIS 1.687	I - 10
19	Cârâc, G, Benea, L., Iticescu, C., Lampke, T, Steinhäuser, S., Wielage, B. Codeposition of cerium oxide with nickel and cobalt: Correlation between microstructure and microhardness. Surface Engineering. Volume 20, Issue 5, October 2004, Pages 353-359. ISSN 0267-0844. DOI: 10.1179/026708404X1134.	-	Q2 2.229 AIS 0.785	I - 9
18	L. Benea, P. Ponthiaux, F. Wenger, J. Galland, D. Hertz, J. Y. Malo. Tribocorrosion of stellite 6 in sulphuric acid medium: electrochemical behaviour and wear. Wear, 256, Published: 2004, Issues 9-10, 948-95. ISSN: 0043-1648. DOI: 10.1016/j.wear.2003.06.003	P.A. - 11	Q1 2.950 AIS 1.687	I - 8
17	Lidia Benea, Pier Luigi Bonora, Alberto Borello, Stefano Martelli, François Wenger, Pierre Ponthiaux, Jacques Galland. Preparation and investigation of nanostructured SiC-nickel layers by electrodeposition. Solid State Ionics. vol. 151, no 1-4, 2002, p. 89-95. ISSN: 0167-2738. doi:10.1016/S0167-2738(02)00586-6.	P.A. - 10	Q1 2.886 AIS 1.247	I - 7

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N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I/ RO*
<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. Effect of SiC size dimensions on the corrosion wear resistance of the electrodeposited composite coating. <b>Materials and Corrosion</b> . Volume 53, Issue 1, Published: 2002, ISSN 0947-5117. 23-29. <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 1.458 AIS 1.037	I - 6
15	Lidia Benea, Pier Luigi Bonora, Alberto Borello, Stefano Martelli. Wear corrosion properties of nano-structured SiC – nickel composite coatings obtained by electroplating. <b>Wear</b> , Volume : 249, 2001 995-1003. ISSN: 0043-1648. <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 2.950 AIS 1.687	I - 5
14	Lidia BENEÀ, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND. Composite electrodeposition to obtain nano-structured coatings. <b>Journal of The Electrochemical Society</b> . 148 (7), 2001, ISSN: 0013-4651. C 461-C 465. <a href="http://dx.doi.org/10.1149/1.1377279">http://dx.doi.org/10.1149/1.1377279</a> .	P.A. - 7	Q1 3.120 AIS 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. <b>Materials and Corrosion</b> . 51, Published: 2000, p. 491-495 ISSN 0947-5117. <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 1.458 AIS 1.037	I - 3
12	Levcovici, D.T., Munteanu, V., Levcovici, S.M., Mitoseriu, O., Benea, L., Paraschiv, M.M. Laser processing of MMC layers on a metal base. <b>Materials and Manufacturing Processes</b> . (1999) 14 (4), pp. 475-487. <a href="https://doi.org/10.1080/10426919908914844">ISSN: 10426914</a> . <a href="https://doi.org/10.1080/10426919908914844">DOI: 10.1080/10426919908914844</a> .	-	Q1 3.350 AIS 0.938	I - 2
11	Lidia Benea. Electrodeposition of Zirconia Particles in a Copper Matrix. <b>Materials and Manufacturing Processes</b> , Vol 14, No: 2, Publ. 1999, pp. 231-242. ISSN: 1042-6914. 231-242.	P.A. - 5	Q1 3.350 AIS 0.938	I - 1

N <sub>ref</sub>	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu ro u (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I/ RO*
<a href="https://doi.org/10.1080/10426919908914820">DOI: 10.1080/10426919908914820.</a>				
(11-49) FI = 127.549				
(1-10) FI = 2.394				
10	Lidia BENEÀ, Adina – Ionica PAVLOV. Ni-TiO <sub>2</sub> nanocomposite coatings as cathode material for hydrogen evolution reaction. Optoelectronics and Advanced Materials - Rapid Communications. Vol 7 Issue 11-12, 2013, p. 895-899. ISSN: 1842-6573. OPTOELECTRON ADV MAT. <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	Q3 0.452 AIS 0.067	RO-10
9	E. MARDARE, L. BENEÀ, J.-P. CELIS. Importance of applied normal loads on the tribocorrosion behaviour of Ti-6Al-4V alloy in bio-simulated environment. OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS. Vol. 6, No. 3-4, March - April 2012, p. 474-478. ISSN: 1842-6573.	-	Q3 0.452 AIS 0.067	RO-9
8	Geta Cârâc, C t lina Iticescu, Lidia Benea, Thomas Lampke and Siegfried Steinhauser. The effect of nano-Al <sub>2</sub> O <sub>3</sub> dispersed phase in nickel matrix electrocodeposited. Revue Roumaine de Chimie. 52 (11), Published: 2007, pp. 1057–1062. ISSN: 0035-3930.	-	Q3 0.395 AIS 0.061	RO-8
7	L. BENEÀ. Comparative corrosion studies of composite coating by impedance spectroscopy method: 2 Comparative corrosion study of copper and copper zirconia composite coatings in sulphuric acid solution. Revue Roumaine de Chimie. vol. 45, no 3, Published: 2000, pp. 255 – 261. ISSN: 0035-3930.	P.A. - 3	Q3 0.395 AIS 0.061	RO-7
6	L. BENEÀ. Comparative corrosion studies of composite coatings by impedance spectroscopy method. 1. Theoretical aspects of the impedance spectroscopy method in corrosion studies. Revue Roumaine de Chimie. Vol : 4 , No: 5 Published: 1999, pp. 439 – 444. ISSN: 0035-3930.	-	Q3 0.395 AIS 0.061	RO-6

5	<b>LIDIA BENEÀ</b> and GETA CARAC. <b>Obtaining of composite coatings by metal electrodeposition using dispersed particles.</b> Metallurgy and New Materials Researches. Vol V No 2, 1997, pp. 20-40.	P.A. - 2	-	RO-5
4	<b>LIDIA BENEÀ</b> , O. MITOSERIU AND MAGDA LAKATOS VARSANYI. <b>Electrodeposition of Zirconium Oxide and Silicon Carbide with Nickel.</b> STUDIA UNIV. BABES BOLYAI, CHEMIA. 41, 2, 1996, p. 233 – 315. <a href="#">ISSN (print): 1224-7154</a>	P.A. - 1	Q3 0.305 AIS 0.029	RO-4
3	<b>LIDIA BENEÀ-(ENACHE)</b> ; I.OVESEA; D. ENACHE, <b>Cercetari privind electrodepunerea cromului pe benzi din otel laminat la rece.</b> Metalurgia, 1993, 3, 19-25.		-	RO-3
2	<b>LIDIA BENEÀ</b> ; CLIMANTA GRADINARIU SI C. SANDU. <b>Cercetari privind electrodepunerea staniului pe otel inoxidabil pentru fabricatia camerelor de ionizare , destinate centralelor nucleare-energetice.</b> Metalurgia, 1990, 42 (9-12), 427-429.		-	RO-2
1	I. OVESEA; <b>LIDIA BENEÀ</b> , OLGA MITOSERIU. <b>Posibilitati de reducere a consumului de zinc în procesul de electrodepunere.</b> Metalurgia, 1987, 39 (2) , 75-79.		-	RO-1

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Published papers in ISI Proceeding Volumes**

<b>N<sub>ref</sub></b>	<b>Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume</b>	<b>Prim autor / P.A.</b>	<b>I</b>
		<b>16</b>	<b>43</b>
43	L Benea, and N Simionescu. <b>Corrosion behavior of Ni/WC nano-structured composite layers synthesized by electrochemical method.</b> IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012004. <a href="https://doi.org/10.1088/1757-899X/572/1/012004">doi:10.1088/1757-899X/572/1/012004</a>	<b>PA-16</b>	<b>I - 43</b>
42	N Simionescu, L Benea, and J P Celis. <b>Wear-corrosion response of Cerium oxide reinforced Cobalt hybrid composite layers in biological solution.</b> IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012003; <a href="https://doi.org/10.1088/1757-899X/572/1/012003">doi:10.1088/1757-899X/572/1/012003</a>		<b>I - 42</b>
41	L Dragus, L Benea, N Simionescu, A RavoIU and V Neaga. <b>Effect of the inflammatory conditions and albumin presence on the corrosion behavior of grade 5 Titanium alloy in saliva biological solution.</b> IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012005; <a href="https://doi.org/10.1088/1757-899X/572/1/012005">doi:10.1088/1757-899X/572/1/012005</a>		<b>I - 41</b>
40	L Mardare and L Benea. <b>Marine corrosion behavior of EH 36 steel in the Black Sea.</b> IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012007. <a href="https://doi.org/10.1088/1757-899X/572/1/012007">doi:10.1088/1757-899X/572/1/012007</a>		<b>I - 40</b>
39	A RavoIU1, N Simionescu and L Benea. <b>Influence of different concentration of hydrogen peroxide on the corrosion behavior of Ti-6Al-4V alloy immersed in physiological solution.</b> IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012006.		<b>I - 39</b>

N <sub>ref</sub>	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	<a href="https://doi.org/10.1088/1757-899X/572/1/012006">doi:10.1088/1757-899X/572/1/012006</a> .		
38	<p><b>Lidia Benea.</b>  <b>Electrochemical methods as promising routes for nanostructuring and functionalization of materials and biomaterials.</b>            Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b>, 24.  <b>Section Micro and Nano Technologies</b>, 30 June - 9 July, 2018, Albena, Bulgaria, p. 191-198..  <a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a>.</p>	PA-15	I - 38
37	<p>Valentin Marian Dumitrascu, <b>Lidia Benea</b>, Nicoleta Lucica Simionescu.  <b>Surfaces morphology, roughness and wetting properties of nanoporous aluminum oxide film formed on 1050 aluminum alloy by controlled electrochemical oxidation.</b>            Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b>, 24.  <b>Section Micro and Nano Technologies</b>, 30 June - 9 July, 2018, Albena, Bulgaria, p. 473-480.  <a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a>.</p>		I - 37
36	<p>Nicoleta SIMIONESCU, <b>Lidia BENEÀ</b>, Anca RAVOIU.  <b>Effect of hydrogen peroxide addition to phosphate buffered saline solutions on corrosion resistance of 316l stainless steel</b>            Proceeding Volume of <b>18th International Multidisciplinary Scientific GeoConference SGEM 2018</b>, 24.  <b>Section Micro and Nano Technologies</b>, 30 June - 9 July, 2018, Albena, Bulgaria, p. 169-176.  <a href="https://doi.org/10.5593/sgem2018/6.1">Doi: 10.5593/sgem2018/6.1</a>.</p>		I - 36
35	<p><b>Lidia Benea.</b>  <b>Surface Modifications of Materials by Electrochemical Methods to Improve the Properties for Industrial and Medical Applications.</b>            IOP Conf. Series: Materials Science and Engineering <b>374</b> (2018) 012014  <a href="https://doi.org/10.1088/1757-899X/374/1/012014">doi:10.1088/1757-899X/374/1/012014</a></p>	PA-14	I - 35
34	V M Dumitrascu, <b>L Benea</b> and N L Simionescu.		I - 34

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

N <sub>ref</sub>	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
29	V Dumitrascu, <b>L Benea</b> ,* and E Danaila. <b>Corrosion Behavior of Aluminum Oxide Film Growth by Controlled Anodic Oxidation.</b> International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing. IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012016. <a href="https://doi.org/10.1088/1757-899X/209/1/012016">doi: 10.1088/1757-899X/209/1/012016</a>		I - 29
28	E D n il and <b>L Benea</b> . <b>The Effect of Normal Force on Tribocorrosion Behaviour of Ti-10Zr Alloy and Porous TiO2-ZrO2 Thin Film Electrochemical Formed.</b> International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing IOP Conf. Series: Materials Science and Engineering <b>209</b> (2017) 012015. <a href="https://doi.org/10.1088/1757-899X/209/1/012015">doi: 10.1088/1757-899X/209/1/012015</a> .		I - 28
27	Anca R voiu, <b>Lidia Benea</b> ; <b>The pH value effect of a simulated physiological solution on the corrosion resistance of Ti-6Al-4V alloy</b> ; pp. 419-426. 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. <a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a>		I - 27
26	Nicoleta Lucica Simionescu, <b>Lidia Benea</b> ; <b>The corrosion behavior of 316l stainless steel in different simulated body fluids solutions</b> ; pp. 353-360. 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. <a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a>		I - 26
25	Valentin Marian Dumitrascu, <b>Lidia Benea</b> , Eliza Danaila; <b>Influence of the sealing process on the corrosion performance of nanoporous aluminum oxide</b> ; pp. 171-178.		I - 25



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24	Laurentiu Mardare, <b>Lidia Benea</b> ; <b>Corrosion of architecture and infrastructure elements in Romanian Black Sea littoral area</b> ; pp. 73-80. 17th International multidisciplinary scientific geoconference, SGEM 2017, Conference proceedings, Volume 17. Nano, bio and green – technologies for a sustainable future, Issue 62, Section Green Buildings Technologies and Materials, 29 June - 5 July, 2017, Albena, Bulgaria. ISSN 1314-2704. <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; <b>Characterization of nanoporous aluminum oxide layers obtained by controlled anodic oxidation</b> ; pp. 43-50. 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. <a href="https://doi.org/10.5593/sgem2017/61">https://doi.org/10.5593/sgem2017/61</a>		I - 23
22	<b>Lidia Benea</b> ; <b>Bio and nanomaterials in tribocorrosion systems.</b> Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1 2017 1757-899X 174 012042 <a href="http://iopscience.iop.org/1757-899X/174/1/012042">http://iopscience.iop.org/1757-899X/174/1/012042</a> <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
21	<b>L Benea</b> , E D n il and P Ponthiaux; <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>	PA-11	I - 21

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20	<p><b>Lidia Benea, Eliza D n il , Pierre Ponthiaux and Jean-Pierre Celis;</b> <b>Improving tribocorrosion behaviour by electro-codeposition of TiC nano-dispersed particles with nickel as hybrid layers for energy applications.</b> Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1 2017 1757-899X 174 012045 <a href="http://iopscience.iop.org/1757-899X/174/1/012045">http://iopscience.iop.org/1757-899X/174/1/012045</a> <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> <b>Development of Anticorrosive Polymer Nanocomposite Coating for Corrosion Protection in Marine Environment.</b> Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 209, conference 1. 2017 1757-899X 209 012056 <a href="http://iopscience.iop.org/1757-899X/209/1/012056">http://iopscience.iop.org/1757-899X/209/1/012056</a> <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	<p><b>L. BENEÀ, V.M. DUMITRASCU</b> <b>Hybrid Composite Layers Obtained by Electro-codeposition: Challenges – Results and Future Applications.</b> <b>NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM, 2016, VOL I, Micro and Nano Technologies, Advances in Biotechnology, pp. 151-158, ISBN 978-619-7105-68-1 / ISSN 1314-2704.</b></p>	PA-9	I - 18

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17	<p>M. LAURENTIU, L. BENEÀ, V. DUMITRASCU  <b>Behavior of Naval Steel with Polymer Protective Coatings in Sea Water.</b>  <b>NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE  PROCEEDINGS, SGEM. 2016, VOL II, Green Buildings Technologies and Materials, Green Design and  Sustainable Architecture</b>, pp. 49-56, ISBN 978-619-7105-69-8 / ISSN 1314-2704.  <b>Book Series:</b> International Multidisciplinary Scientific GeoConference-SGEM  <b>Pages:</b> 49-56.  <b>Published:</b> 2016  <b>Conference:</b> 16th International Multidisciplinary Scientific Geoconference (SGEM 2016)  <b>Location:</b> Albena, BULGARIA.  <b>Date:</b> JUN 30-JUL 06, 2016  <b>DOI:</b> <a href="https://doi.org/10.5593/SGEM2016/B62/S26.007">10.5593/SGEM2016/B62/S26.007</a>  <a href="http://sgem.org/sgemlib/spip.php?article7989">http://sgem.org/sgemlib/spip.php?article7989</a>  <b>WOS:</b>000391650000007</p>		I - 17
16	<p>D. PIRVU-NEAGU, L. BENEÀ, V.M. DUMITRASCU, L. MARDARE.  <b>Some Corrosion Problems in Municipal Waste Water Collection System of Galati.</b>  16<sup>th</sup> International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings, Book 5 –  <b>Ecology, Economics, Education and Legislation</b>, Vol. 2 – <b>Ecology and Environmental Protection</b>, pp. 743-  750, ISBN 978-619-7105-66-7 / ISSN 1314-2704.  <b>DOI:</b> <a href="https://doi.org/10.5593/SGEM2016/B52/S20.096">10.5593/SGEM2016/B52/S20.096</a>  <a href="http://www.sgem.org/sgemlib/spip.php?article7559">http://www.sgem.org/sgemlib/spip.php?article7559</a></p>		I - 16

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14	<p><b>Lidia BENEÀ.</b>  <b>Bio and nanomaterials in tribocorrosion systems.</b>  13th International Conference on Tribology, ROTRIB'16.  IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012042.  12 pages.  <b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b>  <b>Book Series:</b> IOP Conference Series-Materials Science and Engineering  <b>Volume:</b> 174  <b>Article Number:</b> UNSP 012042  <a href="#">DOI: 10.1088/1757-899X/174/1/012042</a>  <b>Published:</b> 2017  <a href="http://www.rotrib16.ugal.ro/">www.rotrib16.ugal.ro/</a>  <a href="#">WOS:000399753500042</a></p>	PA-8	I - 14

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13	<p><b>Lidia BENEÀ</b>, Eliza D N IL , Pierre PONTTHIAUX, Jean-Pierre CELIS.  <b>Improving tribocorrosion behaviour by electro-codeposition of TiC nanodispersed particles with nickel as hybrid layers for energy applications.</b>            13th International Conference on Tribology, ROTRIB'16.            IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012045.            8 pages.  <b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b>  <b>Book Series:</b> IOP Conference Series-Materials Science and Engineering  <b>Volume:</b> 174  <b>Article Number:</b> UNSP 012045  <b>DOI:</b> <a href="https://doi.org/10.1088/1757-899X/174/1/012045">10.1088/1757-899X/174/1/012045</a>  <b>Published:</b> 2017.  <a href="https://doi.org/10.1088/1757-899X/174/1/012045">doi:10.1088/1757-899X/174/1/012045</a>  <a href="http://www.rotrib16.ugal.ro/">www.rotrib16.ugal.ro/</a>  <b>WOS:000399753500045</b></p>	PA-7	I - 13
12	<p><b>Lidia BENEÀ</b>, Eliza D N IL , Pierre PONTTHIAUX.  <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>            13th International Conference on Tribology, ROTRIB'16.            IOP Conf. Series: Materials Science and Engineering <b>174</b> (2017) 012044.            6 pages.  <b>13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)</b>  <b>Book Series:</b> IOP Conference Series-Materials Science and Engineering  <b>Volume:</b> 174  <b>Article Number:</b> UNSP 012044  <b>DOI:</b> <a href="https://doi.org/10.1088/1757-899X/174/1/012044">10.1088/1757-899X/174/1/012044</a>  <b>Published:</b> 2017  <a href="http://www.rotrib16.ugal.ro/">www.rotrib16.ugal.ro/</a>  <b>WOS:000399753500044</b></p>	PA-6	I - 12
11	<p><b>Lidia BENEÀ</b>, Eliza D N IL , Valentin Marian DUMITRA CU, Pierre PONTTHIAUX.  <b>The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated</b></p>	PA-5	I - 11

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	<p><b>physiological solution.</b>  <b>Paper ID 60,</b>  <b>E-Health and Bioengineering - EHB 2015.</b>            IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.  <a href="http://www.ehbconference.ro/Submission.aspx">http://www.ehbconference.ro/Submission.aspx</a>  <a href="https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971">https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971</a>  <b>2015 E-Health and Bioengineering Conference (EHB)</b>  <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>            Denumire conferin :  <b>Challenging Issues for Health and Biomedical Technologies.</b>  <b>E-Health and Bioengineering Conference (EHB).</b>  <b>Indexed in:</b>            IEEE Xplore® data base,            Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases.            DOI: <a href="https://doi.org/10.1109/EHB.2015.7391574">10.1109/EHB.2015.7391574</a>            Accession Number: <b>WOS:000380397900227</b></p>		
10	<p>Eliza D N IL , Lidia BENEÀ, Pierre PONTIAUX.  <b>Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure Co coatings in a simulated physiological solution.</b>  <b>Paper ID 61.</b>  <b>E-Health and Bioengineering - EHB 2015.</b>            IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.  <a href="http://www.ehbconference.ro/Submission.aspx">http://www.ehbconference.ro/Submission.aspx</a>  <a href="https://easychair.org/conferences/submission.cgi?submission=2475973;track=138896;a=9821051">https://easychair.org/conferences/submission.cgi?submission=2475973;track=138896;a=9821051</a>  <b>2015 E-Health and Bioengineering Conference (EHB)</b>  <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>            Denumire conferin :  <b>Challenging Issues for Health and Biomedical Technologies.</b>  <b>E-Health and Bioengineering Conference (EHB).</b>  <b>Indexed in:</b></p>		I - 10

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9	<p><b>3. Eliza D N IL , Lidia BENEÀ.</b> <b>The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution.</b> <b>Paper ID 277.</b> <b>E-Health and Bioengineering - EHB 2015.</b> IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE. <a href="http://www.ehbconference.ro/Submission.aspx">http://www.ehbconference.ro/Submission.aspx</a> <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> <b>2015 E-Health and Bioengineering Conference (EHB)</b> <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> Denumire conferin : <b>Challenging Issues for Health and Biomedical Technologies.</b> <b>E-Health and Bioengineering Conference (EHB).</b> <b>Indexed in:</b> IEEE Xplore® data base, Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases. DOI: <a href="https://doi.org/10.1109/EHB.2015.7391518">10.1109/EHB.2015.7391518</a> Accession Number: <b>WOS:000380397900171</b></p>		I - 9
8	<p><b>Lidia BENEÀ,</b> <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. <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</p>	P.A. - 4	I - 8

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7	Eliza DANAILA, <b>Lidia BENEÀ</b> , Iulian BOUNEGRU, <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. <b>Indexed:</b> SCOPUS www.scopus.com and Ei Compendex (CPX) www.ei.org/. Cambridge Scientific Abstracts (CSA) www.csa.com, Chemical Abstracts (CA) www.cas.org, Google and Google Scholar google.com, ISI (ISTP, CPCI, Web of Science) www.isinet.com, Institution of Electrical Engineers (IEE) www.iee.org, etc. <a href="https://doi.org/10.4028/www.scientific.net/SSP.227.507">DOI: 10.4028/www.scientific.net/SSP.227.507</a>		I - 7
6	<b>Benea, Lidia</b> ; Danaila, Eliza ; Celis, Jean-Pierre. <b>Influence of contact frequencies on corrosion behavior of Ti-6Al-4V alloy during fretting in physiological solution. E-Health and Bioengineering Conference (EHB), 2013, pp. 1-4, 2013.</b> <b>Digital Object Identifier : 10.1109/EHB.2013.6707420</b> <b>Print ISBN: 978-1-4799-2372-4</b> Book Group Author(s): IEEE 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 2013 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Published: 2013 <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> <b>WOS:000346672900188</b>	P.A. - 3	I - 6
5	Pralea - Mardare, Marilena; <b>Benea, Lidia</b> ; Danaila, Eliza ; Bounegru, Iulian. <b>Effect of electroplating parameters on UHMWPE co-deposition into cobalt matrix. E-Health and Bioengineering Conference (EHB), 2013, pp. 1-4, 2013. Print ISBN: 978-1-4799-2372-4</b> <b>Digital Object Identifier : 10.1109/EHB.2013.6707233</b> Book Group Author(s): IEEE	-	I - 5



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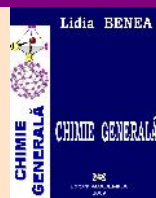
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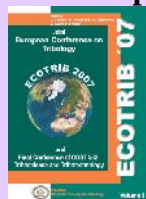
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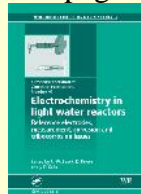
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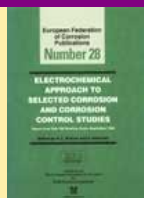
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- 254 **2015:** Eliza D N IL , Lidia BENEĂ, Nadege CARON, Olivier RAQUET, Pierre PONTIAUX.  
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- 252 **2015:** Valentin DUMITRA CU, Lidia BENEĂ, Eliza D N IL .  
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- 211 **2014:** Laurențiu MARDARE, Lidia BENEĂ.  
“Degradation of materials in specific saline environments with temperature differences and prevention methods”,  
**Conferința științifică a colilor Doctorale din Universitatea Dunrea de Jos din Galați – Ediția a II-a, Secțiunea 3 – Materiale Funcționale și Nanotehnologii** (Scientific Conference of Doctoral Schools from Dunrea de Jos University of Galați – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Galați, România.  
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<http://www.cssd-udjg.ugal.ro/>
- 210 **2014:** Doina NEAGU – PÎRVU, Lidia BENEĂ  
“Aspects of materials degradation under chemical attack from the leachate treatment plant of the Tirighina waste landfill”,  
**Prezentare orală la Conferința științifică a colilor Doctorale din Universitatea Dunrea de Jos din Galați – Ediția a II-a, Secțiunea 3 – Materiale Funcționale și Nanotehnologii** (Scientific Conference of Doctoral Schools from Dunrea de Jos University of Galați – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Galați,  
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- 209 **2014:** Iulian BOUNEGRU, Lidia BENEĂ, Alexandru CHIRIAC.  
“Hybrid inorganic – organic nanocomposite coatings obtained by chitosan electrodeposition”,  
**Prezentare orală la Conferința științifică a colilor Doctorale din Universitatea Dunrea de Jos din Galați – ediția a II-a, Secțiunea 3 – Materiale Funcționale și Nanotehnologii** (Scientific Conference of Doctoral Schools from Dunrea de Jos University of Galați – Second Edition, Section 3 – Nanotechnologies and Functional Materials), 15 – 16 Mai 2014, Galați, România.  
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<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.  
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- 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 BENEĂ, 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.

- 13/186 **2013: Lidia Benea:  
“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.

- 12/185 **2013: Andrei Mihai CHIRIAC, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS.  
“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.

- 11/184** 2013: Sorin Bogdan BA A, **Lidia BENEÀ**, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS.  
**” 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.

- 10/183** 2013: **Lidia Benea**:  
**”Nanocomposite coatings for improving the corrosion and wear resistance of surfaces,,**  
 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.

- 9/182** 2013: Vlad-Gabriel Vasilescu, **Lidia Benea**, Elisabeta Vasilescu.  
**“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

- 8/181** 2013: Alina Ciubotariu, **Lidia Benea**, Pierre Ponthiaux, Francois Wenger.  
**“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

- 7/180** 2013: Adina Pavlov, **Lidia Benea**, Lilia Ilie, Jean - Pierre Celis.  
**“Influence of TiO2 nanoparticles on surface morphology and cristalinity of nickel electrodeposited nickel film”.**  
**Drd-5 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** 2013: . Marilena Mardare (Pralea), **Lidia Benea**, Lilia Ilie.  
**”Electro-co-deposition of UHMWPE biopolymer with cobalt to obtain functional coatings”**  
**Drd-4 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** 2013: Iulian Bounegru, **Lidia Benea**, Lilia Ilie, Geta Carac, Alexandru Chiriac.

**Drd-3** ‘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.

**2013: Lidia Benea.**  
**4/177** 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.

**2012: Alina – Crina CIUBOTARIU, Lidia BENEÀ, Pierre PONTIAUX and François WENGER**  
**3/176** “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.

**2012: Lidia BENEÀ, Eliza MARDARE, Jean – Pierre CELIS.**  
**2/175** “Influence of Surface Treatments on Corrosion Behaviour of Ti-6Al-4V Alloy in Bio-simulated Fluid Solution”,  
**Drd-2** 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.

**2012: Ionica PAVLOV, Lidia BENEÀ, Jean-Pierre CELIS.**  
**1/174** “Electrosynthesis and Corrosion behaviour of Ni/Nano-TiO<sub>2</sub> Composite Coating”,  
**Drd-1** 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.

**2011: Authors: Prof.dr. Lidia Benea, Prof.dr. Maria Vlad, Prof.dr. Antoaneta ENE**  
**173** “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** (POS DRU 19524)/ 13 – 14 July 2011, Galati, Romania.

**2011: Adina PAVLOV, Lidia BENEÀ.**  
**172** “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.**

2011: Alina Ciubotariu, **Lidia Benea**, Wolfgang Sand  
**SULPHATE REDUCING BACTERIA IN BIOFILMS ON THERMOSETTING POLYMERS/ZN COMPOSITE COATINGS.**  
163 **Plenary Lecture at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.**

2011: Adina Ionica Pavlov, **Lidia Benea**  
**INFLUENCE OF CO-DEPOSITION PARAMETERS FOR ELECTROCHEMICAL SYNTHESIS OF Ni-TiO<sub>2</sub> NANOCOMPOSITE COATINGS – A REVIEW.**  
162 **Plenary Lecture at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.**

2011: Lucian Baican, **Lidia Benea**  
**“Nanocomposite coatings obtained by electro-codeposition of ceramic particles with copper: a review**  
161 **Poster presentation at International Conference TEME 2011: New trends in environmental and materials engineering (TEME), 18-20 May 2011, GALATI, ROMANIA.**

2011: Lidia Benea:  
**“Complementary work a successful opportunity of a PhD student to gain experience from an abroad European academic institution”.**  
160 **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.

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:**  
159 **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.**

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:**  
158 **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.**

- 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:**  
**157** 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.
- 2010: Florentina Simona ORCARU, Lidia BENEÀ, Pierre PONTTHIAUX, François WENGER.**  
**156** **“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**
- 2010: Stefan BALTA, Lidia BENEÀ, Simona Florentina SORCARU, Eliza MARDARE.**  
**155** **“Electrochemical investigation of codeposition of ZrO<sub>2</sub> nano and micro sized 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.
- 2010: Lidia BENEÀ, Marilena MARDARE, Eliza MARDARE.**  
**154** **“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.**
- 2010: Eliza MARDARE, Lidia BENEÀ, Jean Pierre CELIS.**  
**153** **“ 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.
- 2010: Lidia BENEÀ, Marilena MARDARE-PRALEA.**  
**152** **“UHMWPE-Cobalt Composite Layers by Codeposition Process”,**  
**O-102: Prezentare oral** la The Eight International Symposium on Electrochemical Micro & Nanosystem Technologies, 21-24 September 2010, Cannes Mandelieu, France
- 2010: Lidia BENEÀ, Florentina Simona SORCARU, Eliza MARDARE-DANAILA, Stefan Balta.**  
**151** **“Co-electrodeposition of Nano and Micro sized 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.
- 2010: Lidia BENEÀ, Florentina Simona SORCARU, Pierre PONTTHIAUX, François WENGER,**  
**150**

- „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. :
- 2010:** Stefan BALTA, Lidia BENEÀ, Bart Van der BRUGGEN.  
**149** **„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.
- 2010:** Lidia BENEÀ, Simona-Florentina SORCARU, Marian NEACSU, Pierre PONTTHIAUX, Francois WENGER, Elena DRUGESCU.  
**148** **„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.
- 2010:** Eliza MARDARE, Lidia BENEÀ, Jean-Pierre CELIS.  
**147** **„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.
- 2010:** Lidia BENEÀ, Marilena MARDARE-PRALEA, Eliza MARDARE-DANAILA, Paula COJOCARU  
**146** **’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
- 2010:** Lidia BENEÀ, Alina CIUBOTARIU, Bernard TRIBOLLET, Wolfgang SAND.  
**145** **„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.
- 2010:** Lidia BENEÀ, Florentina Simona SORCARU, Pierre PONTTHIAUX, Francois WENGER.  
**144** **”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
- 2010:** Florentina – Simona SORCARU, Lidia Benea, Pierre Ponthiaux, Francois WENGER.  
**143** **”Co-depositon study of dispersed ZrO bioceramic with cobalt”**  
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



2010: Stefan BALTĂ, **Lidia BENEÀ**, Bart Van der BRUGGEN.  
"Manufacturing of PES membranes with oxide nanoparticles for water nanofiltration"  
142 Poster presentation at Conferința de Coroziune și Protecție Anticorozivă 2010 - a V-a Conferință Națională cu Participare Internațională de Coroziune și Protecție Anticorozivă. 16 - 18 septembrie 2010, Cluj Napoca

2010: Alina Crina CIUBOTARIU, **Lidia BENEÀ**, Wolfgang SAND  
„Atomic Force Microscopy Method applied to investigate the thermosetting polymers/Zn composite Layers”  
141 Poster presentation at Conferința de Coroziune și Protecție Anticorozivă 2010 - a V-a Conferință Națională cu Participare Internațională de Coroziune și Protecție Anticorozivă. 16 - 18 septembrie 2010, Cluj Napoca.

2010: **Lidia BENEÀ**, Marilena MARDARE-PRALEA, Eliza MARDARE-DANAILA, Paula COJOARU  
„Co-Deposition of UHMWPE during Cobalt Electroplating Process”,  
140 Prezentare Poster la Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.

2010: Eliza MARDARE, **Lidia BENEÀ**, Jean-Pierre CELIS.  
“Tribocorrosion Behaviour of Ti-6Al-4V Alloy in Fusayama – Meyer Saliva Solution”,  
139 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  
“Tribocorrosion study of Co-CeO<sub>2</sub> Nanocomposite Coatings obtained by Electrodeposition”,  
138 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.  
Synthesis and characterization of TiO<sub>2</sub> and ZnO blended nanofiltration membranes”.  
137 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  
“Tribocorrosion Study of Al-Zn-Mg-Cu alloy in NaCl Solution”.  
136 Prezentare Poster la Joint Workshop PhD Expert & PHC Brancusi during 22-23 iulie 2010, Galati, Romania.

135 2010: Lidia Benea:

**Joint PhD Thesis at Dunarea de Jos University of Galati.**

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

- 2010: Stefan 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, Belgium. 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 morphology 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 Mitocariu, 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)
- 126 **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)
- 121 **2009:** Alina Ciubotariu, **Lidia Benea**, Wolfgang Sand:  
“Combined AFM and EFM for visualization of sulphate reducing bacteria on

**thermosetting resin / Zn composite coatings”**

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)

120

**2009: Lidia Benea, Alina Ciubotariu, Wolfgang Sand, Bernard Tribollet.**

**“Materials characteristics influencing biofilm formation and growth”**

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)

119

**2009: Lidia Benea:**

**COST D33 - WG1 activity report.**

**“Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials”**

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)

118

**2009: Lidia Benea, Marilena Mardare, Paula Cojocaru, Remus Mihaila;**

**„ZrO<sub>2</sub>/Co New functional bio composite coatings”.**

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)

117

**2009: Marilena Mardare, Lidia Benea, Paula Cojocaru.**

**„Influence of UHMWPE/Co composite coatings on biofilm formation, biocompatibility and degradation”**

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)

116

**2009: Lidia Benea, Simona-F. Sorcaru, Pierre Ponthiaux.**

**’Nano-composite coatings – functional surfaces in decreasing the bacterial adhesion - surface study”.**

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)

115

**2008: L. Benea.**

**Electrochemical Methods To Study The Tribocorrosion Processes.**

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.

- 2008: L. Benea, B. Tribollet, Mardare Marinela.**  
**Effect of nano sized SiC particles on the electrochemical corrosion behaviour of nickel coatings.**  
107 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.
- 2008: L. Benea, B. Tribollet, W. Sand, P. Ponthiaux, F. Wenger**  
**Factors influencing the bacteria attachments and biofilm formation on surface of materials.**  
106 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.
- 2008: Lidia Benea, Francois Wenger, Jean-Pierre Celis, Pierre Ponthiaux**  
**Electrochemical methods in investigation the tribocorrosion processes of passivable materials.**  
105 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)
- 2008: Geta Carac, Lidia Benea, Denny Thiemig, Andreas Bund.**  
**Cobalt composite coatings with lanthanide oxides – correlation between structure and properties.**  
104 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)
- 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.**  
103 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)
- 2008: Lidia Benea, B Tribollet, W Sand, F Wenger, P Ponthiaux.**  
**Bacteria attachments and biofilm formation on material surfaces.**  
102 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)
- 2008: Lidia Benea, Bernard Tribollet Marilena Mardare**  
**Electrochemical corrosion behaviour of nano SiC-Nickel composite coatings.**  
101 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)

- 99 **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)**  
[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.

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

- 97 **2006: Lidia Benea.**  
**Electrochemical Aspects and Bio - Tribocorrosion Properties of Actually Used Nickel Based Alloys and Alternative Materials and Coatings in artificial joints.**  
**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.

- 96 **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.**  
Conference presented at: EUROCORR 2006, 25 to 28 September 2006, Maastricht, Pays-Bas, Olanda.

- 95 **2006: LIDIA BENEÀ**  
**Aspects of micro and nanocorrosion in tribocorrosion processes.**  
**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)

- 94 **2006: LIDIA BENEÀ, GETA CARAC.**  
**Dispersed Nano and Micro Structured Composite Coatings Obtained by**

**Codeposition of Ceramic Particles with Nickel.**

**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 Anticoroziv (CPA), organizată la Cluj, în perioada 27-28 octombrie 2006.  
Conferinta THE CORROSION AND ANTICORROSIVE PROTECTION CONFERENCE, organizată de Universitatea tehnică 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.**

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Poster la **International Conference on Physical Chemistry ROMPHYSCHEM-12** din perioada September 6 - 8, 2006, Bucharest – ROMANIA.

- 2006: Lidia Benea, François Wenger, Viorel Iordache, Pierre Ponthiaux.  
**Tribocorrosion Behaviour of Nanostructured SiC-Ni Composite Coatings Obtained by Electrodeposition.**  
87 Conferința în cadrul Workshopului European “Nano-Chemistry Workshop – Chemical Functionality Specific to the Nanometer Scale” organizat de către Institut d’Investigacions Químiques i Ambientals de Barcelona (IIQAB) i Consejo Superior de Investigaciones Científicas (CSIC), la Barcelona – Sitges, Spania în perioada 11 – 14 mai 2006.

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

- 2006: Lidia Benea, François Wenger, Pierre Ponthiaux.  
“Repassivation kinetics of cobalt chromium alloy in boric acid solution”.  
83 Prezentare orală la Conferința Internațională: EMCR 2006- Electrochemical Methods in Corrosion Research din perioada 18 iunie - 23 iunie 2006 în Dourdan, Franța.  
[www.ise-online.org/sponsmeet/past\\_sponsored\\_events](http://www.ise-online.org/sponsmeet/past_sponsored_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.

2006: **Lidia Benea**, Geta Carac, Alina Ciubotariu, Magda Lakatos-Varsanyi “  
80 Nano- and Micro - Structured Composite Coatings SiC-Nickel: Electrochemical and Structural Studies”.  
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. S4-P-11.

2005: **Lidia Benea.**  
79 **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.

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

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

2005: **L. Benea, V. Iordache, F. Wenger, P. Ponthiaux**;  
76 Tribocorrosion study of nanostructured SiC-Ni composite coatings;  
Conferinta 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 CÂRÂC, 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-Xhemistry: 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 BENEÀ;**  
**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 PONTIAUX, 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 BENEÀ**, P. PONTIAUX, 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 BENEÀ**, 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)

- 58 **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”**  
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.

- 57 **2001: Lidia BENEÀ**, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTTHIAUX, Jacques GALLAND.  
**“Nanocomposite electroplating. Electrochemical aspects, structure and properties”.**  
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.

- 56 **2000: Lidia Benea, P. L. BONORA, A. BORELLO, S. MARTELLI, G. MAURIN.**  
**“Composite electrodeposition to obtain nano-structured coatings”.**  
**Invited Lecture** presented (30minute) la Congresul interna ional **International Symposium on “Soft Solution-Processing” (SSP-2000), Tokyo, Japan, 9-13 December 2000.**

- 55 **2000: Lidia Benea,** Pier Luigi Bonora, Alberto Borello, Stefano Martelli, Georges Maurin.  
**“Electrodeposition of SiC nano-crystals with nickel”**  
**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.

- 54 **2000: Lidia Benea:**  
**“Some aspects in obtaining and properties of zirconia/metal composite coatings”**  
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.

- 53 **1999: LIDIA BENEÀ, GEORGES MAURIN AND OTMAR DOSSENBACH.**  
“**NICKEL ZIRCONIA COMPOSITE COATINGS AS ELECTRODE MATERIAL FOR WATER ELECTROLYSIS**”  
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.
- 52 **1999: Lidia Benea, O. Dossenbach, F. Wenger, P. Ponthiaux and J. Galland:**  
“**Composite Coatings with Zirconium Oxide as Dispersed Phase and their Anticorrosion Properties**”.  
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.
- 51 **1999: Lidia Benea, Olga Mitoseriu, J. Galland, F. Wenger, P. Ponthiaux.**  
“**Corrosion study of copper composite coating by the impedance spectroscopy method**”.  
Conferin prezentat (30 minute) la Congresul interna ional (Invited lecture) EUROCRR'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 international: 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 international: 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”**  
In 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 înnobilarea suprafetelor zincate prin tratamente chimice si electrochimice”.**  
Prezentat la Sesiunea Stiintifica organizata de Universitatea Galati în perioada 7-8 /11

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1984.

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**1983: Lidia Benea: “Tehnologii moderne de protecție a produselor din oțel cu aliaje ale zincului cu aluminiu”.**

- 4 Prezentat la a III-a Sesiune Științifică cu tema: “Noutăți în fabricarea produselor plate din oțel și în protecția suprafețelor acestora contra coroziunii” organizată la Galați la 14 octombrie 1983.
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**1983: Lidia Benea: “Posibilități de fabricare a tablelor plumbuite pe suport de zinc cu eliminarea staniului din aliajul plumb-staniu”**

- 3 Prezentat la a III-a Sesiune Științifică cu tema: “Noutăți în fabricarea produselor plate din oțel și în protecția suprafețelor acestora contra coroziunii” organizată la Galați la 14 octombrie 1983.
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**1983: Lidia Benea: “Tehnologii moderne de zincare a tablelor în proces**

**discontinuu”** Prezentat la a III-a Sesiune Științifică cu tema: “Noutăți în fabricarea produselor plate din oțel și în protecția suprafețelor acestora contra coroziunii” organizată la Galați, 14 octombrie 1983.

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**1983: Lidia Benea: “Contribuții privitor la înlocuirea zincului cu aliaje zinc-aluminiu la acoperirea metalică de protecție a benzilor și sârmelor din oțel prin imersie”**

1 Prezentată la Sesiunea Științifică organizată de Institutul central de cercetări metalurgice, cu ocazia “Zilei Metalurgistului” din 7 septembrie 1983.

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October 2020

Prof. univ. dr. (Ph.D.) Lidia BENEĂ

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