Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**BENEA Lidia**
Adresă(e)	Bloc 10C, Ap. 13, Str. Energiei nr 7, 800247, Galati, România
Telefon(oane)	+ 40 236 493662 Mobil: +40 744 216277
Fax(uri)	+40 236 461353
E-mail (uri)	**Lidia.Benea@ugal.ro ; lidiabd@yahoo.com**
Web page	http://www.cc-ites.ugal.ro/ https://ro.linkedin.com/in/lidia-benea-b1546432/ro https://publons.com/researcher/2805949/lidia-benea/ **http://orcid.org/0000-0003-1551-3960** **https://www.brainmap.ro/profile/Lidia-BENEA**
Naţionalitate(-tăţi)	Română
Sex	F

Locul de muncă / Domeniul ocupaţional	**Profesor universitar dr. chim.,** Universitatea Dunărea de Jos din Galaţi, Facultatea de Inginerie, str. Domnească, nr. 47, 800008, Galați, România, Tel: +40 236 460754, Fax: +40 236 461353; / Educare, Cercetare, Formare. **Conducere doctorat în Ştiințe Inginereşti / Ştiința şi Ingineria Materialelor – Materiale Avansate.** https://www.ugal.ro/files/doctorat/2019/3_SD-SFI_Conducatori_doctorat_17012019.pdf **Director general al Centrului de Competenţe Interfeţe – Tribocoroziune şi Sisteme Electrochimice (CC-ITES)** **www.cc-ites.ugal.ro**
Interese ştiinţifice şi domenii de expertiză	**Electrochimie aplicată Ştiinţa şi Ingineria Materialelor şi Ingineria mediului**. Metode electrochimice pentru prepararea straturilor nano şi micro structurate, acoperiri compozite şi hibride (anorganic –organic), modificarea suprafeţelor, straturi de oxizi subțiri, sau nanoporoşi, suprafețe funcționale pentru a îmbunătăți rezistența la coroziune și tribocoroziune a materialelor în mediile specifice de utilizare. **Studii electrochimice la interfaţa (bio) material electrod / mediu specific (soluţii)**. **Materiale avansate: biomateriale, nanomateriale, straturi nanocompozite**. **Materiale polimerice** utilizate în sisteme mebranare pentru nanofiltrare şi transport transdermic sau materiale destinate implantării. **Caracterizarea suprafeţei materialelor** din punct de vedere structural (X-ray), morfologic (SEM), compoziţional (EDX), microtopografic şi proprietăți mecanice (microduritate, nanoidentare).

Experienţa profesională

Perioada	**1991 - Prezent**
Funcţia sau postul ocupat	**Profesor universitar doctor, Conducător doctorat: Ingineria Materialelor.** Director CC-ITES: Centrul de Competență Interfeţe-Tribocoroziune-Sisteme Electrochimice. Conferențiar doctor. Şef lucrări doctor. Asistent.
Activităţi şi responsabilităţi principale	Invăţământ. Cercetare fundamentală şi aplicativă, Programe internaţionale. **-Cursuri licenţă**: Tehnici de Analizã, Cristalografie şi Mineralogie, Chimie Fizică, Coroziune şi Protecţii Anticorozive, Chimie Generală, Tehnologie Chimică, Elemente de Electrochimie şi Corozine, **Interfaţa material / ţesut.** **-Cursuri master:** *Superaliaje şi compuşi intermetalici, Materiale alternative. Strategii şi proiecte europene în domeniul nanomaterialelor şi nanotehnologiilor, Straturi de protecţie nano şi micro structurate, Materiale hibride şi nanocompozite, Strategii de tratare a deşeurilor*, Electrochimie şi coroziune, **Tehnologii avansate de protecţie a suprafeţelor.** **Coordonator proiecte de dizertaţie** în domeniile: Nanotehnologii şi Materiale multi-funcţionale; Interacţiunea material - ţesut, Coroziune şi Protecţii Anticorozive. **-Cursuri Doctorat:** Metode avansate de caracterizare a materialelor: Tehnici şi metode electrochimice pentru studiul şi evaluarea degradării materialelor în medii specifice. Caracterizarea suprafeţelor prin măsurarea unghiului de contact şi a energiei libere pentru evaluarea biocompatibilităţii. **-Coordonator teze de doctorat** în domeniul Ştiinţe Inginereşti – Ingineria Materialelor. **-Organizarea lucrărilor practice de laborator la disciplinele**: chimie, coroziune şi protecţii anticorozive, electrodepuneri, cristalografie, tehnici de analiză, tehnologie chimică, electrochimie aplicată în obţinerea straturilor micro şi nanostructurate şi în caracterizarea materialelor prin metode electrochimice, microscopie optică şi unghi de contact. **-Acorduri de colaborare bilaterală** pentru stagii didactice şi de cercetare pentru studenţi şi 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. **-Cercetare fundamentală şi aplicativă ca director de proiecte sau membru în echipă, în granturi de cercetare naţionale şi internaţionale în domenile:** Obţinere şi caracterizare straturi compozite nanostructurate şi microstructurate. Nanomateriale. Cercetare în domeniul protecţiilor anticorozive şi coroziunii, mecanismul şi cinetica degradării materialelor pasivabile în medii corozive specifice (de la medii industriale la biomedicale) în prezenţa unei perturbări mecanice (uzură) - tribocoroziune**, modificarea suprafeţelor materialelor şi biomaterialelor prin obţinerea straturilor compozite nano şi microstructurate, formarea şi creşterea controlată a filmelor de oxizi nanoporoşi sau formarea electrochimică controlată a hidroxiapatiei.** **-Programe internaţionale europene**: Membru în comitetul de managment la proiecte europene **ESF – COST**: 520, 521, 533, 532, D19, D33. Vice Chair proiect european COST D33. Proiecte internaţionale bilaterale cu Universitatea Catolică Leuven (Belgia), Ecole Centrale Paris (Franța). **-Proiecte internaţionale bilaterale** cu Universitatea Catolică Leuven (Belgia), Ecole Centrale Paris (Franța).
Numele şi adresa angajatorului	Universitatea Dunărea de Jos din Galaţi, Facultatea de Metalurgie, Ştiinţa Materialelor şi Mediu. Str. Domnească nr 47, 800008 Galaţi.
Tipul activităţii sau sectorul de activitate	Învăţământ universitar – Cercetare fundamentală şi aplicativă.
Perioada	**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.
Funcţia sau postul ocupat	**Profesor şi cercetător invitat.**
Activităţi şi responsabilităţi principale	**Conducere de proiecte** cu studenţii din anii IV şi V în domeniul *coroziunii şi protecţiilor anticorozive*, cinetica degradării materialelor metalice şi biomaterialelor prin coroziune şi uzură (*tribocoroziune*) în medii specifice de utilizare. **Curs în limba franceză**: **Straturi compozite micro şi nano- structurate - Tribocoroziune - oţeluri şi aliaje pasivabile**. Mecanismul şi cinetica degradării materialelor pasivabile în medii corozive în prezenţa unei perturbari mecanice (uzura). **Lucrări practice** (Travaux pratiques) de *Corrosion électrochimique şi Tribocorrosion.* *TP-projets de Corrosion*: Studenţi anul IV. Încadrare stagiari pre şi post doctorali şi studenţi doctorat *şi Formare prin Cercetare (Formation par la Recherche).* **Cercetare**: -Etude de la corrosion des armatures de béton par les méthodes des impédances électrochimiques et polarisation lineaire. -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. -Etude des mécanismes de tribocorrosion dans le cas d'aciers passivables. -Etude de mecanismes de tribocorrosion (straturi dure, straturi nano si microstructurate, sticle ionomere, materiale biocompatibile). **Activități de predare şi cercetare.** Electrochimie aplicată. Electrodepunerea aliajelor metalice şi compozite nanostructurate. Coroziunea şi protecții anticorozive. Tribocoroziunea acoperirilor compozite nanostructurate şi a metalelor şi aliajelor pasivabile. Cursuri, lucrări practice şi cercetare. Coordonator al studenților masteranzi şi a proiectelor de cercetare cu privire la metodele experimentale şi materialelor destinate implanturilor umane. Materiale de restaurare pentru structuri dentare de tip ionomer de sticlă modificat cu rășină. Acoperiri compozite obținute prin co-depunerea electrochimică. **Co-Supervizor teză de doctorat.**
Numele şi adresa angajatorului	ECOLE CENTRALE PARIS, FRANŢA. Laboratoire Génie des Procédés – Matériaux. Grand Voie des Vignes, Chatenay Malaby, 92290 France.
Tipul activităţii sau sectorul de activitate	Învăţământ universitar – Cercetare: Ingineria materialelor. Biomateriale.
Perioada	**Martie 1999 - Iunie 2000, Iulie 2001, Iulie – August 2004, Mai 2007.**
Funcţia sau postul ocupat	**Profesor şi cercetător invitat.**
Activităţi şi responsabilităţi principale	**Curs** în limba engleză: **Surface treatments to improve the corrosion and wear properties of materials**. Pentru studenţii anului IV si V. La curs au participat şi ingineri din producţie interesaţi de domeniul tratamentelor electrochimice şi ingineriei suprafeţelor. 36 ore de curs/sem. **Laborator**: *Amenajare, organizare şi redactare lucrări practice* de laborator pentru studenţi privind electrodepunerea metalelor, aliajelor şi materialelor nanocompozite. **Cercetare**: Electrodepunerea metalelor si materialelor compozite: obţinerea şi caracterizarea proprietătilor de rezistenţă la coroziune şi uzură în corelaţie cu compoziţia chimică şi structura acestora. Director proiect: ***Nano – coatings obtained by electrodeposition***.

Numele şi adresa angajatorului	Universitatea Trento, Facultatea de Ingineria Materialelor. Str Messiano nr 77, Trento Italia
Tipul activităţii sau sectorul de activitate	Învăţământ universitar – cercetare: Ingineria Materialelor.
Perioada	**1981-1990**
Funcţia sau postul ocupat	Cercetător ştiinţific gr II, cercetător principal III, cercetător. Cadru didactic asociat.
Activităţi şi responsabilităţi principale	**Cercetare:** 26 de lucrări de cercetare ca responsabil de contract, şi 11 colaborator, în domeniile coroziunii, tehnologii de protecţii anticorozive prin electrodepunere de metale şi aliaje, straturi de conversie, asimilări de noi materiale şi analize chimice. Prin noutatea soluţiilor propuse în contractele de cercetare conduse, am obţinut 10 brevete de invenţie şi 35 de inovaţii în domeniu. La concursuri şi conferinţe ştiinţifice organizate la nivel judeţean şi naţional am obţinut 10 premii şi diplome.
Numele şi adresa angajatorului	ICPPAM (Institutul de Cercetări si Proiectări pentru Produse Plate si Acoperiri Metalice) GALATI.
Tipul activităţii sau sectorul de activitate	Cercetare.
Perioada	**Septembrie 1977 - 1980**
Funcţia sau postul ocupat	Chimist.
Activităţi şi responsabilităţi principale	Stagiul în productie, conform repartiţiei guvernamentale. Am desfăşurat activitate în secţiile de producţie, organizarea muncii şi în laboratoare de controlul calităţii materiilor prime şi produselor. Am realizat 3 studii tehnico aplicative cu rezultate directe în instalaţiile de pretratare a apei, optimizarea filtrelor de demineralizare şi organizarea laboratorului de controlul calităţii.
Numele şi adresa angajatorului	Combinatul de Ingrăşăminte Chimice Bacău.
Tipul activităţii sau sectorul de activitate	Producţie – Industrie chimică.

Educaţie şi formare

Perioada	**1999 octombrie-noiembrie**
Calificarea / diploma obţinută	Atestat stagiu post doctoral în **Electrochimie.**
Disciplinele principale studiate / competenţe profesionale dobândite	Electrochimie. Metode electrochimice pentru studiul materialelor.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Laboratoire: Physique des Liquides et Electrochimie, Université Pierre et Marie Curie, Paris - Franţa
Nivelul în clasificarea naţională sau internaţională	Universitate Cercetare.
Perioada	**Martie 1998-decembrie 1998**

Calificarea / diploma obţinută	Atestat stagiu post doctoral **NATO** în Ştiinta Materialelor.
Disciplinele principale studiate / competenţe profesionale dobândite	Electrochimie. Metode electrochimice în studiul suprafeţelor. Coroziune. Depuneri compozite nano şi microstructurate.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ecole Centrale Paris, Franţa.
Nivelul în clasificarea naţională sau internaţională	Universitate. Inginerie. Ingineria materialelor.
Perioada	**Martie – Iulie 1997**
Calificarea / diploma obţinută	Grant de mobilitate individuală TEMPUS, oferită de Comunitatea Europeană pentru a îmbunătăți cursurile de chimie, electrochimie și coroziune.
Disciplinele principale studiate / competenţe profesionale dobândite	Cercetări cu privire la studiul coroziunii oțelului beton armat prin metode de spectroscopie de impedanță electrochimică şi polarizare liniară.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY Malabry cedex, France.
Nivelul în clasificarea naţională sau internaţională	Universitate. Inginerie. Ingineria materialelor.
Perioada	**Martie 1992 – februarie 1996**
Calificarea / diploma obţinută	**Doctorat.** **1996: Doctor în Chimie. Doctor of Science in Chemistry (Ph.D). Teză: *Obţinerea şi analiza structurală a straturilor compozite.***
Disciplinele principale studiate / competenţe profesionale dobândite	Chimie fizică. Electrochimie. Ştiinţa Materalelor.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea Dunărea de Jos, Galati.
Nivelul în clasificarea naţională sau internaţională	Universitate Cercetare.
Perioada	**Ianuarie 1994 – Septembrie 1995**.
Calificarea / diploma	Atestat stagiu doctoral. Bursă guvernamentală.
Disciplinele principale studiate / competenţe profesionale dobândite	Electrochimie. **Metode electrochimice aplicate** în **Ingineria şi Stiinţa Materialelor**. Electrodepuneri metale aliaje şi straturi compozite. Coroziunea materialelor.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea Eotvos Lorand Budapesta, Ungaria. Academia de Ştiințe Budapesta, Ungaria. Departamentul de Chimie – Fizică, H-1518 BUDAPEST 112; Po Box 32..
Perioada	**1978**
Calificarea / diploma	Certificat perfectionare în Asigurarea Calitãtii Produselor

Disciplinele principale studiate / competenţe profesionale dobândite	Calitate, Fiabilitate, Statistică.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Industriei Chimice.
Nivelul în clasificarea naţională sau internaţională	Universitar - Postuniversitar.
Perioada	**Sept. 1985- Iulie 1986**
Calificarea / diploma obţinută	**Diploma de studii postuniversitare** în **Coroziune şi protecţii anticorozive**
Disciplinele principale studiate / competenţe profesionale dobândite	Electrochimie. Coroziune şi protecţii anticorozive.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Institutul Politehnic Bucuresti. Facultatea de Chimie.
Nivelul în clasificarea naţională sau internaţională	Universitate. Cercetare.
Perioada	**Sept.1973 - Iulie 1977.**
Calificarea / diploma obţinută	Licenţă în Chimie.
Disciplinele principale studiate / competenţe profesionale dobândite	Chimie generală. Chimie anorganică. Chimie organică. Chimie fizică. Macromolecule. Tehnologii chimice. Cataliză şi catalizatori. Electrochimie. Matematică. Fizică.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Institutul Politehnic Bucuresti. Facultatea de Chimie.
Nivelul în clasificarea naţională sau internaţională	Universitate.

Aptitudini şi competenţe personale

Limba(i) maternă(e)	**Română**									
Limba(i) străină(e)	cunoscută(e)									
Autoevaluare	**Înţelegere**				**Vorbire**				**Scriere**	
Nivel european (*)	Ascultare		Citire		Participare la conv.		Discurs oral		Exprimare scrisă	
Limba	C1	**Engleză**	C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
	C1	**Franceză**	C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
Limba	A2	**Italiană**	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Competenţe şi abilităţi sociale	-Spirit de echipă. - Adaptabilitate bună de lucru în medii multiculturale dobândită din exprienţa

de lucru în învăţământ şi cercetare la universităţi din Franţa şi Italia.
- Capacitate bună de comunicare dobândită din experienţa de participare în proiecte europene ca şi membru în Comitetul de Management şi din proiectele internaţionale bilaterale cu Franţa şi Belgia.

Competenţe şi aptitudini organizatorice şi manageriale

►Capacitatea de a lucra individual dar şi în echipă, bune competenţe de comunicare.
►Experienţă în managmentul cercetării la nivel naţional şi European.
►Coordinarea de oameni şi proiecte în România în calitate de manager de proiect şi manager al grupului de lucru precum şi organizarea de cursuri şi laboratoare practice pentru studenţi la Universitatea "Dunărea de Jos" din Galaţi.
►Administrarea bugete corespunzătoare proiectelor de cercetare manageriate.
►Coordinarea, administrarea de persoane, proiecte şi studenţi în timpul lucrului temporar în Franţa, Italia şi în perioadele menţionate mai sus.
Experientă managerială rezultată din coordonarea multiplelor proiecte la nivel naţional şi internaţional. Din anul 1998 m-am preocupat de aderarea Romaniei la multe proiecte europene tip ESF-COST, propunând şi teme de cecetare în colaborare cu parteneri externi membri ai acestor proiecte. Participarea la managmentul proiectelor respective, ca membru în comitetele de managment mi-a confirmat valoarea ştiinţifică, astfel că în anul 2005 am fost aleasă ca **vice-chair** al actiunii **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#
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
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://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
COST 533 – Materials – Materials for Improved Wear Resistance of Total Artificial Joints.
http://w3.cost.eu/index.php?id=247&action_number=533 ;www.bioTribology.net

Experienţă în formarea şi coordonarea personalului. Prin acordurile internaţionale încheiate, am participat la formarea şi specializarea cadrelor didactice şi studenţilor din instituţia noastră prin stagii şi vizite la instituţii de prestigiu din învăţamantul superior din Europa: Ecole Centrale Paris, Universitatea Trento - Materials Engineering (Italia), Universitatea Catolică Leuven (Belgia), Universitatea Minho (Portugalia).

Competenţe şi aptitudini tehnice

Competenţe foarte bune în aparatură electrochimică specializată în studiul materialelor (potenţiostat-galvanostat, analizor frecvenţă), microscopie electronică de baleiaj, unghi de contact, ultramicrotopografie, etc. dobândită prin experienţa de lucru la instituţii din străinătate prin stagiile efectuate ca cercetător invitat.

	Competenţe în asigurarea calităţii dobândită prin cursuri de formare postuniversitare.
Competenţe şi aptitudini de utilizare a calculatorului	- Competenţe foarte bune tehnice în lucrul cu calculatorul: Microsoft Office, Word, Excel, PowerPoint, Photo Paint, CorelDraw, Origin, Internet. Art work. Dobândite prin muncă, experienţă proprie, prezentări de conferinţe la multe seminarii şi congrese internaţionale.
Alte competenţe şi aptitudini	**Exepertiză şi recunoştere internaţională:** *<u>**Din 2002**</u>**:** Am fost aleasă **Chairman al WG 18 Tribocorrosion** – ***Knowledge dissemination and training*** în cadrul FEDERAŢIEI EUROPENE DE COROZIUNE. ***<u>1998 –2010</u>: Membru în Comitetul de Managment 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. ***<u>2003</u>: Membru în Comitetul Ştiinţific International al Congresului EUROCORR 2003,** September 28 - October 2, 2003; Budapesta, Ungaria. ***<u>2007</u>: Membru în Comitetul Ştiinţific Internaţional al *Internaţional Conference on Biocorrosion of Materials*, BIOCORYS 2007**, 11-14 June 2007, Paris, Franţa. ***<u>2008</u>: 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. ***<u>2008</u>: Membru în Comitetul ştiintific International** Conference on Corrosion and Modern Technologies in the Military. November 5-8, 2008. Bucharest, ROMANIA. ***<u>2009:</u> Chairman of COST D33 final workshop: Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials,** 13-15 mai 2009, Cluj Napoca. ***<u>2009:</u> Membru în Comitetul Ştiinţific UGALMAT 2009.** *<u>**2010**</u>**: Membru în Comitetul de organizare (Program). CPA 2010:** Conferinţa de Coroziune si Protectie Anticoroziva 2010 - a V-a Conferinţă Naţională cu Participare Internaţională de Coroziune şi Protecţie Anticorozivă. ***<u>2011</u>: Membru în Comitetul Ştiinţific Internaţional 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. ***<u>2011</u>: Membru în Comitetul Ştiinţific**: The 1st Edition of the International Conference of Young Researchers. New trends in environmental and materials engineering. May 18 - 20, 2011 in Galati, Romania. ***<u>2011</u>**: **Membru în Comitetul Ştiinţific:** International workshop research quality in doctoral school, increased industrial and international visibility (POSDRU 19524) / 13 – 14 July 2011. ***<u>2013 - 2019</u>: Membru în Comitetul Ştiinţific. Conferinţa Ştiinţifică a Şcolilor Doctorale din UDJ Galaţi, CSSD-UDJG 2013 Ediţia I, II, III, IV**

Secţia 3. Galaţi, 16-17 mai 2013, 15 – 16 Mai 2014, **4th-5th of June 2015, 2-3 Iunie 216.**
***2013**: **. Membru în Comitetul Ştiinţific. The second international conference of young researchers "New trends in environmental and materials engineering" (TEME) 28 - 30 octombrie 2013, Galati, 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, Galaţi, România.
http://www.cc-ites.ugal.ro/Invitation_Workshop_NanoSurf_03_-2014_&_PERFORM_2014.pdf
2014: Membru în Comitetul Ştiinţific: **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, Bulgary.
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/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
***2015, 2017, 2019**: Membru în Comitetul Ştiinţific: **International Conference - "New trends in environmental and materials engineering" (TEME),** 21 – 23 October 2015, Galați, Romania.
***2015**: Membru în Comitetul Ştiinţific: **International Conference PPE 2015. International Conference on Polymer Processing in Engineering.** Galati, Romania**.** September 24-26, 2015.
***2016**: Membru în Comitetul Ştiinţific: The 13th International Conference on Tribology, **September 22-24, 2016 – Galați, ROMANIA, ROTRIB'16.**
***2016:** Membru în Comitetul Ştiinţific: Conference on Material Science & Engineering 19-21 May 2016, Galati, Romania, UgalMat 2016.
***Chairperson al unor sesiuni în cadrul Congreselor internaţionale**:
-2002:Chairman al Sesiunii "Coatings", in cadrul 15th International Corrosion Congress, 2002, Granada Spain.
-1998: Chairman of Session "Deposition", International Society of Electrochemistry, 49th 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 BENEA). 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
-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 BENEA, 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 Secţiunea 3 (sala D03) la Conferinţa Şcolilor Doctorale - UDJG.
-2015: Moderator Secţiunea Session 2: Processing and Testing of Polymers and Composites II **PPE 2015**
-2015: Moderator Secţiunea 3 - Functional Materials & Nanotechnologies la Conferinţa Şcolilor 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 şi contribuţii ştiinţifice în domeniul ***Physico chimie des interfaces, adresa web:
http://www.lgpm.ecp.fr/publications/avecactes/interfaces/document_view?month:int=10&year:int=2006
Organizarea şi administrarea programelor Socrates Erasmus încheiate cu partenerii externi pentru cadre didactice şi studenţi: Ecole Centrale Paris, Trento University, Katholieke Universiteit Leuven, Aquila University Italia. Acorduri bilaterale semnate în domeniul tiinţei şi Ingineriei Materialelor.

Activitate peer-review şi evaluare

EXPERT EVALUATOR şi **RAPPORTEUR:**
2000-2019: European Commission – RDG Science Research and Development, Engineering Science Panel, Engieeing 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 Naţional Experţi (UEFISCDI): 2004-2015.
EXPERT 2011 (UE): Agenţia Universitară a Francofoniei, noiembrie 2011.
EXPERT 2011 (UE): Research Promotion Foundation (RPF) of Cyprus. Octombrie 2011.
2012: Expert / evaluator: Program Capacităţi, Modulul III, proiecte de cooperare bilaterală, pentru cooperarea bilaterală România-Argentina.
2012, 2016: Expert / evaluator: Program Cooperare Europeană EUREKA-EUROSTARS.
2012, 2015: Expert / evaluator: Capacităţi, Modulul III, proiecte de cooperare bilaterală, pentru cooperarea bilaterală România-Moldova.
2012: Expert / evaluator: Cooperări bilaterale - Programul de actiuni

Integrate Romania – Franta.
2013: Evaluare proiecte pentru cooperarea bilaterală **România-Ungaria, UEFISCDI, Programul Capacităţi, Modulul III.**
2014: Evaluare PNII - Capacităţi, proiecte de cooperare bilaterală **România-China pe domeniul 7. Materiale, si produse inovative şi 10: Ştiinţe de bază.**.
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 Proprosals 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 referent ştiinţific pentru articole trimise la jurnale internaţioale 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 ştiinţific) for International Ph.D. Thesis (pentru teze de doctorat internaţionale în limba engleză: Dicarboxilic 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 şi Protecţie Anticorozivă (CPA**), lansată la Cluj-Napoca în octombrie 2006, sub coordonarea Universităţii 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 asociaţiilor profesionale	**MEMBERSHIP:** International Society of Electrochemistry (ISE) din 1995. ECS - The Electrochemical Society Inc. (ECS USA) din 1998. CEFRACOR (Societatea franceză de coroziune) France. Royal Society of Chemistry (RSC) -UK din 2015. Romanian Society of Chemistry (Societatea Roamână de Chimie) din 1999.
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.**
DIPLOMA of SILVER MEDAL 2017	**DIPLOMA of SILVER MEDAL, awarded in 2017 by EUROINVENT 2017 -** EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION. **for invention patent: Co/nano-ZrO_2 functional surfaces obtained by electrodeposition, authored by Lidia Benea and Florentina Sorcaru.**
Anghel Saligny Diploma of Excellence 2017	**ANGHEL SALIGNY DIPLOMA for excellence results as university professor position.** **Awarded in 2017 by Engineering Faculty from Dunărea de Jos University of Galati.**
Diploma de Excelenţă 2016	**EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncuşi-Humbert Curien".** **Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI).**
Diploma Anghel Saligny 2015	**ANGHEL SALIGNY DIPLOMA for excellence results as university professor position.** **Awarded in 2015 by Engineering Faculty from Dunărea de Jos University of Galati.**
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.**

Diplomă de Excelenţă 2010	**Diploma de excelenţă pentru activitatea de cercetare în domeniul Coroziune şi Protecţii Anticorozive.** **Excellence Diploma for Research Activity in Corrosion and Corrosion Protection.** **Conferită de Universitatea Tehnica Cluj –Napoca si BETAK S.A.**
Permis de conducere	**Categoria B**
Realizări ştiinţifice	**►23 Cărţi şi capitole cărţi.** **►5 Editor: Muncă editorială pentru cărți şi DVD proceeding.** **►277 Articole publicate în jurnale naţionale şi internaţionale din care:** **•95 - Total lucrări ştiințifice publicate în jurnale şi Volume Proceeding indexate ISI (Thomson Reuters - Clarivate Analytics) din care:** **•52 Lucrări ştiințifice (articole) publicate în jurnale cotate ISI Thomson Reuters (Clarivate Analytics).** **-Impact factor (I.F.) cumulat = 123,81.** **•43 Lucrări ştiințifice publicate în Volume ISI Proceedings.** **•62 Lucrări ştiințifice publicate în jurnale BDI.** **•120 Lucrări ştiințifice publicate în alte jurnale naționale şi în Conference Proceedings.** **►330 Lucrări ştiințifice prezentate ca: Lecturi invitate, Keynote, Oral şi Postere la Conferințe Internaționale şi Naționale (123 în perioada 2014-2019).** **►65 Proiecte şi rapoarte de cercetare ştiințifică ca director sau membru în echipă.** **►Autor a 11 certificate de inventator şi 35 inovator.** **►2016: 1 Articol publicat în TOP 1 Journals în domeniul de cercetare: MATERIALS SCIENCE, COATINGS & FILMS, după AIS** (Clasificare PRECISI-UEFISDCI-Ministerul Educaţiei şi Cercetării Ştiinţifice.
Indicatori	**Responsabilităţi. Hirsch Index and citations**
Recunoaştere ştiinţifică şi academică internaţională	**Responsabilităţi ştiinţifice şi academice:** **●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** **●2016-2020: Membru în Consiliul Naţional 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 analiză a contestaţiilor, Comisia**

7 - Ingineria Materialelor la nivel de CNATDCU - Ministerul Educaţiei şi Cercetării Ştiinţifice.

●**2012-2016**: **Membru în Senatul Universităţii** Dunărea de Jos din Galaţi-şi **Membru în Comisia de Cercetrare a Senatului.**

●**2012-2016, 2016-2020: Membru in Consiliul Şcolilor Doctorale** (CSUD) - IOSUD -Universitatea Dunărea de Jos din Galaţi.

●Director of Research(Competences) Center Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES) at "Dunărea de Jos" University of Galaţi (institutional accreditation 2007).
www.cc-ites.ugal.ro

●**Coordonator al Erasmus Programmes** cu Ecole Centrale Paris - France, Katholiekke Universiteit Leuvwn - 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):

● **2023 Citations of ISI published articles in ISI Journals in Google Scholar:**

$$h_{BeneaLidia}^{GoogleSch} = 20$$

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

● **1513 Citations of ISI published articles in ISI Journals in SCOPUS: Scopus – Science Direct: SCOPUS ID: 55954358700**

$$h_{BeneaLidia}^{Scopus} = 19$$

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

● **1438 Citations of ISI published articles in ISI Journals in ISI Web of Knowledge**:

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

http://apps.webofknowledge.com/CitationReport.do?product=UA&search_mode=CitationReport&SID=D482YHrKjojPrpJBjq2&page=1&cr_pqid=2&viewType=summary

Researcher ID web page:
https://publons.com/researcher/2805949/lidia-benea/
ORCID: **http://orcid.org/0000-0003-1551-3960**

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.

Indeplinire — Standarde abilitare: CNATDCU Comisia 7 - Ingineria materialelor

Domeniul: Ştiinţe inginereşti – Ingineria materialelor

Condiţii	Îndeplinire condiţii		
A. Doctor	**DIPLOMA DE DOCTOR** Seria N, Nr. 001335, emisă în baza Ordinului Ministrului Învăţământului nr. 3543 din 03 aprilie 1996.		
B. Îndeplinirea standardelor minime naţionale conform: Ordinului ministrului educaţiei, naţionale şi cercetării ştiinţifice nr. 6129 / 2016. [MENCS nr. 6129/2016] [Susţinere abilitare, Domeniul *Ingineria Materialelor*, Comisia CNATDCU [Anexa nr. 7].	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 7 - **COMISIA DE INGINERIA MATERIALELOR.** Anexată: Fişa de calcul şi de susţinere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menţionate:		
Condiţii minimale Profesor [Punctaj]	**Minim prevăzut**	**Realizat/ punctaj**	**si %**
(A1). Activitatea didactică şi profesională.	**60**	**399,69**	**666.15 %**
(A2). Activitatea de cercetare.	**320**	**2350,94**	**734,66 %**
(A3). Recunoaşterea şi impactul activităţii (A3)	**120**	**7089,25**	**5907,70 %**
TOTAL A	**500**	**9844,33**	**1968,966 %**

Indeplinire — Standarde abilitare: CNATDCU Comisia 4 - Chimie

Domeniul: Chimie

CATEGORIE	Profesor/CS 1/Habilitare		Grad de îndeplinire %
	Criteriu	PUNCTAJ	
N_{max}	Standard	50	Indeplinit
	Realizat	50 Luate în considerare 48 articole publicate în jurnale cotate ISI (Clarivate Analytics), 2 capitole în cărţi vizibile în peste 150 de biblioteci	
FIC	Standard	100	127.81%
	Realizat	127.81	
FIC_D	Standard	70	182.58%
	Realizat	127.81	
FIC_{AP}	Standard	50	205.78%
	Realizat	102.89	
FIC_{AC}	Standard	25	411.56%
	Realizat	102.89	
Hirsch index (h) (fără autocitări)	Standard	13	169.23%
	Realizat	22 WOS	

Legendă:
N_{max} Primele maxim N lucrări aşezate în ordinea descrescătoare a factorilor de impact.
Hirsch index (h) – minim 13.
FIC - minim 100 (factorul de impact cumulat minimal al revistelor in care s-au publicat lucrările în cauză).
FIC_D factorul de impact cumulat minimal din publicaţii în domeniile de cercetare declarate.
FIC_{ap} - minim 50 factorul de impact cumulat minimal din publicatii în calitate de autor principal.
FIC_{AC} minim 25 factorul de impact cumulat minimal din publicaţii în calitate de autor corespondent.

Septembrie 2019 **Lidia BENEA**

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.**

18th INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC CONFERENCE on EARTH & GEOSCIENCES SGEM 2018

AWARD CERTIFICATE SGEM2018

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PROF. DSC. LIDIA BENEA

Title: ELECTROCHEMICAL METHODS AS PROMISING ROUTES FOR NANOSTRUCTURATION AND FUNCTIONALIZATION OF MATERIALS AND BIOMATERIALS

Dunarea de Jos University of Galati, Romania

Prof. D.Sc. D. Slavovsky
SGEM Scientific Committee Chairman

Clarivate Analytics WEB OF SCIENCE Cross ref ProQuest EBSCO HOST Scopus ELSEVIER Springer

SILVER MEDAIL - DIPLOMA
for invention: Co/nano-ZrO_2 functional surfaces obtained by electrodeposition.
Awarded in 2017 by EUROINVENT 2017 - EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION.

EURO INVENT

IAȘI ROMÂNIA

DIPLOMA
OF
Inventions Section
SILVER MEDAL is awarded to:

Co/nano-ZrO_2 functional surfaces obtained by electrodeposition

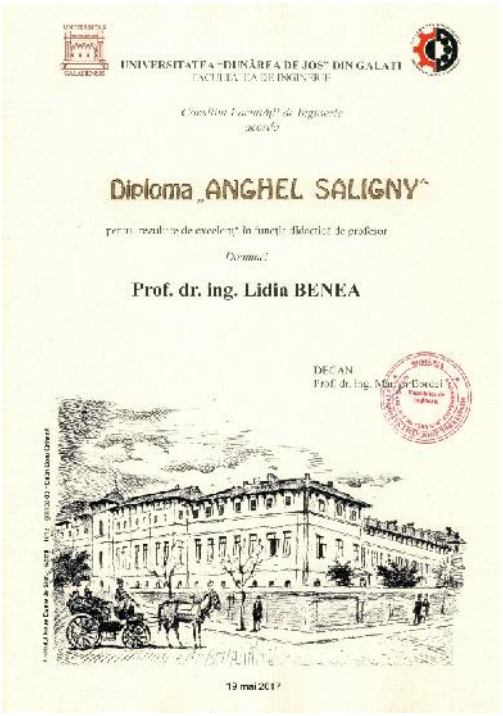
Lidia BENEA, Florentina Simona ȘORCARU.

President of International Jury
Dr.Eng. Mohc Mustafa Al Bakr ABDULLAH

President of Exhibition
Prof. dr. SANDU

IFIA
INTERNATIONAL FEDERATION OF INVENTORS' ASSOCIATIONS
EUROINVENT 2017

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



UNIVERSITATEA "DUNĂREA DE JOS" DIN GALAȚI
FACULTATEA DE INGINERIE

Diploma „ANGHEL SALIGNY"

Prof. dr. ing. Lidia BENEA

DECAN
Prof. dr. ing. Marian Borcoci

19 mai 2017

EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncuşi-Humbert Curien".
Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI)

ANCSI

București, 21 noiembrie 2016

Diplomă de Excelență

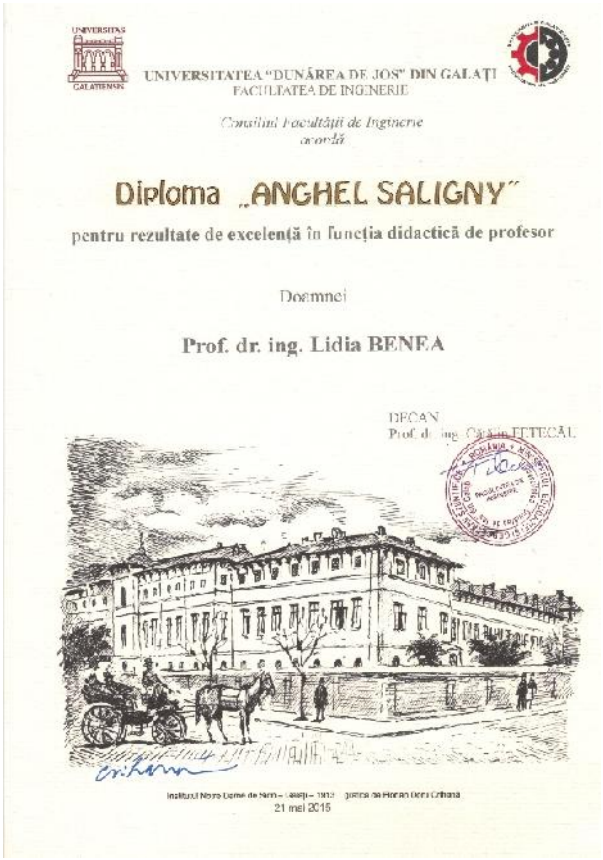
pentru activitatea de cercetare științifica și tehnologica
desfășurată în cadrul cooperării bilaterale
România - Franța,
Programul "Brâncuși Hubert Curien"

Se acordă doamnei BENEA LIDIA din Universitatea DUNAREA de JOS GALAȚI
Pentru proiectul "Brâncuși - Hubert Curien" din perioada 2013 - 2014

Autoritatea Națională pentru
Cercetare Științifică și Inovare
Mihai Robert DIMA
Președinte

Ambasada Franței în România
François SAINT - PAUL
Ambasador

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



UNIVERSITATEA "DUNĂREA DE JOS" DIN GALAȚI
FACULTATEA DE INGINERIE

Consiliul Facultății de Inginerie acordă

Diploma „ANGHEL SALIGNY"

pentru rezultate de excelență în funcția didactică de profesor

Doamnei

Prof. dr. ing. Lidia BENEA

DECAN
Prof. dr. ing. Ovidiu FETECĂU

21 mai 2015

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

ACS Publications

CERTIFICATE OF APPRECIATION

PRESENTED DECEMBER 2011 TO

Prof. Dr. Lidia BENEA

Dunarea de Jos University of Galati

FOR YOUR VALUABLE CONTRIBUTION AND DEDICATED SERVICE IN THE PEER REVIEW OF MANUSCRIPTS SUBMITTED TO ACS JOURNALS

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

UNIVERSITATEA TEHNICĂ
DIN CLUJ-NAPOCA
şi
BETAK

acordă

Diploma de Excelenţă

Doamnei

Prof. dr. ing. **Lidia BENEA**
Universitatea „Dunărea de Jos" din Galaţi
pentru activitatea deosebită în domeniul
Coroziunii şi Protecţiei Anticorozive

Director general
Prof. ing. Caius BULEA

Rector
Prof. Dr. Ing. Dr. H. C. mult. Radu MUNTEANU
Rectorat

17 Septembrie 2010
Cluj-Napoca

THOMSON REUTERS - 2016 HIGHLY CITED RESEARCHERS.

View as Mobile or Online

THOMSON REUTERS

2016 HIGHLY CITED RESEARCHERS.

Dear Lidia,

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

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

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

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

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

Best regards,

Vin Caraher

Septembrie 2019 Prof. Univ. Dr. (Ph.D.) Lidia BENEA

--//--

Prof. Dr. Lidia BENEA
Competences (Research) Centre
Interfaces – Tribocorrosion and Electrochemical Systems (CC-ITES)
Faculty of Engineering
Dunarea de Jos University of Galati
Ldia.Benea@ugal.ro
http://www.cc-ites.ugal.ro/
https://publons.com/researcher/2805949/lidia-benea/
https://www.brainmap.ro/profile/Lidia-BENEA

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

Articole cotate ISI Thomson Reuters
Published papers in ISI Thomson Reuters Journals
52 Articole in jurnale cotate ISI din care 41 cu F.I. >0.5 şi 11 cu F.I. < 0.5
43 Articole in ISI Proceedings.
TOTAL: 95 articole cotate ISI (52 jurnale ISI + 43 Proceedings ISI).

I = ISI International
RO = ISI din Romania

N_{ref}	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu roşu (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
	TOTAL	**32**	**123.81**	**33 / 19**
52	**Benea, Lidia**; Ravoiu, Anca; Celis, Jean Pierre. **Anticorrosion performance of the electrochemically grown mixed porous oxide films on titanium alloy in biological solution.** ***ACS Biomaterials Science & Engineering.*** *ACS Biomater. Sci. Eng.*2019, XXXXXXXXXX-XXX Publication Date: September 26, 2019. ID: ab-2019-006266		**4.511 / 1.587**	

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
	ISSN: 2373-9878. https://doi.org/10.1021/acsbiomaterials.9b00626 https://pubs.acs.org/doi/abs/10.1021/acsbiomaterials.9b00626			
51	**Lidia Benea**, Nicoleta Simionescu, Jean Pierre Celis. **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** **Reference: JMBBM_103443** ***Journal of the Mechanical Behavior of Biomedical Materials***. Volume 101, January 2020, 103443. **Article Number: 103443** DOI: https://doi.org/10.1016/j.jmbbm.2019.103443 ISSN: 1751-6161. Accepted Date: 18 September 2019. https://www.sciencedirect.com/science/article/pii/S1751616119309191 https://www.sciencedirect.com/journal/journal-of-the-mechanical-behavior-of-biomedical-materials/vol/101/suppl/C		**3.485 / / 1.492**	
50	**Lidia Benea** and Valentin Dumitrascu. **Enhancement in sustained friction and wear resistance of nanoporous aluminum oxide films obtained by controlled electrochemical oxidation process**. ***RSC Advances***; RSC Adv., 2019, 9, 25056–25063. DOI: 10.1039/c9ra05702a rsc.li/rsc-advances WOS: 000481573800044		**3.049 AIS 1.472**	
49	NICOLETA SIMIONESCU, ANCA RAVOIU, **LIDIA BENEA*** **Electrochemical in vitro Properties of 316L StainlessSteel for Orthodontic Applications.** ***REV.CHIM.(Bucharest),*** Vol. 70, No. 4, 2019, pp. 1144-1148. .(Bucharest)♦70♦ No. 4 ♦20191144 **http://www.revistadechimie.ro/pdf/8%20SIMIONESCU%204%2019.pdf** **http://www.revistadechimie.ro/archive.asp?last=1**		**1.605 AIS = 0.140**	

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
48	**Lidia Benea,** Jean Pierre Celis**.** **Reactivity of porous titanium oxide film and chitosan layer electrochemically formed on Ti-6Al-4V alloy in biological solution.** ***Surface & Coatigs Technology*, 2018,** 354 (2018) 145–152. https://doi.org/10.1016/j.surfcoat.2018.09.015		**3.192 / AIS= 1.464**	
47	**Lidia Benea,** Laurentiu Mardare, Nicoleta Simionescu**.** **Anticorrosion performances of modified polymeric coatings on E32 naval steel in sea water.** ***Progress in Organic Coatings***, 2018, vol 123, p. 120-127. https://doi.org/10.1016/j.porgcoat.2018.06.020 **Impact Factor = 3.420** **AIS = 1.526**	**PA-27**	**3.420 / AIS= 1.526**	
46	VALENTIN MARIAN DUMITRAŞCU, **LIDIA BENEA** **Improving The Corrosion Behavior Of 6061 Aluminum Alloy By Controlled Anodic Formed Oxide Layer.** ***Revista de Chimie*.** 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. http://www.revistadechimie.ro http://www.revistadechimie.ro/pdf/DUMITRASCU%20V%20M%201%2017.pdf		**1.605 AIS = 0.140**	
45	**Lidia Benea**, Eliza Danaila **Nucleation and growth mechanism of Ni/TiO_2 nanoparticles electro-codeposition.** ***Journal of The Electrochemical Society*, 2016, 163 (13)**, pp. D655 - D662. ISSN: 0013-4651 **IF=3.120** TOP 1 dupa AIS DOI name: 10.1149/2.0591613jes ; http://jes.ecsdl.org/cgi/content/abstract/163/13/D655 WOS:000389155900073.	**PA-26**	**3.120 AIS = 1.923**	**I-29**

N_{ref}	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu roşu (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
	TOP 1 în domeniul: **MATERIALS SCIENCE, COATINGS & FILMS** **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.**			
44	Eliza Dănăilă, **Lidia Benea**[*], Nadège Caron, Olivier Raquet; **Titanium Carbide Nanoparticles Reinforcing Nickel Matrix for Improving Nanohardness and Fretting Wear Properties in Wet Conditions.** ***Metals and Materials International*** September 2016, Volume 22, Issue 5, pp 924–934 2018 Impact Factor =1.647 doi: 10.1007/s12540-016-6090-x. ISSN: 1598-9623 First Online: 19 August 2016 Cite this article as: Dănăilă, E., Benea, L., Caron, N. et al. Met. Mater. Int. (2016) 22: 924. doi:10.1007/s12540-016-6090-x		**1.647 / SRI=1.153 Red after IF**	**I-28**
43	Alina Crina CIUBOTARIU**, Lidia BENEA**, Pierre PONTHIAUX[b] **Corrosion resistance of Zinc-Resin hybrid composite coatings obtained by electro-codeposition** ***Arabian Journal of Chemistry*.** ISSN: 1878-5352 doi:10.1016/j.arabjc.2016.07.002 **http://www.sciencedirect.com/science/article/pii/S1878535216301009** **IF = 3.298**		**3.298 AIS 1.558 Red after IF**	**I-27**
42	**Lidia Benea**, Nadege Caron and Olivier Raquet. ; **Tribological behavior of Ni matrix hybrid nanocomposite reinforced by titanium carbide nanoparticles during electro-codeposition** ;	**P.A. = 25**	**3.049 AIS**	**I-26**

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
	RSC Advances. *RSC Advances*, 2016, **6**, 59775 - 59783. ; *RSC Advances*, 2016, DOI: 10.1039/C6RA03605H **http://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra03605h#!divAbstract** Title: Tribological behavior of a Ni matrix hybrid nanocomposite reinforced by titanium carbide nanoparticles during electro-codeposition Author(s): Benea, Lidia; Caron, Nadege; Raquet, Olivier Source: RSC Advances Volume: 6 Issue: 64 Pages: 59775-59783 Published: 2016. ISSN: 2046-2069		**1.472**	
41	**Lidia Benea** and Jean-Pierre Celis. **Effect of Nano-TiC Dispersed Particles and Electro-Codeposition Parameters on Morphology and Structure of Hybrid Ni/TiC Nanocomposite Layers. ;** ***Materials,* 2016**, *9*(4), 269. **;** doi:10.3390/ma9040269 **;** **http://www.mdpi.com/1996-1944/9/4/269** ISSN 1996-1944 Galben: pozitia 67: **MATERIALS SCIENCE, MULTIDISCIPLINARY**	**P.A. = 24**	**2.972 AIS 1.405**	**I-25**
40	**Lidia Benea**, Eliza Danaila, Pierre Ponthiaux. **Effect of titania anodic formation and hydroxyapatite electrodeposition on electrochemical behaviour of Ti–6Al–4V alloy under fretting conditions for biomedical applications**. ***Corrosion Science***, Volume 91, February 2015, Pages 262–271. Available online 21 November 2014. **ISSN: 0010-938X** **doi:10.1016/j.corsci.2014.11.026** http://www.sciencedirect.com.ux4ll8xu6v.useaccesscontrol.com/science/article/pii/S0010938X14005472	**P.A. - 23**	**6.355 AIS 3.942**	**I - 24**
39	**Lidia BENEA**, Sorin – Bogdan BAŞA, Eliza Dănăilă, Nadège CARON, Olivier RAQUET, Pierre PONTHIAUX, Jean-Pierre CELIS	**P.A. -**	**5.770**	**I – 23**

N_{ref}	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu roşu (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
	Fretting and wear behaviors of Ni/nano-WC composite coatings in dry and wet conditions. ***Materials and Design*** 65 (2015) 550–558. ISSN: 0261-3069. Online 2 oct 2014., publicat 14 oct 2014. http://dx.doi.org/10.1016/j.matdes.2014.09.050 http://www.sciencedirect.com/science/article/pii/S0261306914007523	**22**	**AIS 2.595**	
38	**Lidia Benea,** Eliza Mardare - Danaila, Jean-Pierre Celis. **Increasing the tribological performances of Ti-6Al-4V alloy by forming a thin nanoporous TiO2 layer and hydroxyapatite electrodeposition under lubricated conditions**. *Tribology International*. *Tribology International* 78 (2014) 168–175. http://dx.doi.org/10.1016/j.triboint.2014.05.013 0301-679X/&	**P.A. - 21**	**3.517 AIS 1.666**	**I - 22**
37	**Lidia Benea**, Eliza Danaila, Jean-Pierre Celis, **Influence of electro-co-deposition parameters on nano-TiO2 inclusion into nickel matrix and properties characterization of nanocomposite coatings obtained**. ***Materials Science & Engineering A.*** *Materials Science and Engineering: A*, Volume 610, 29 July 2014, Pages 106-115. http://dx.doi.org/10.1016/j.msea.2014.05.028	**P.A. - 20**	**4.081 AIS 2.959**	**I - 21**
36	**Lidia Benea**, Eliza Mardare, Marilena Mardare, Jean-Pierre Celis. **Preparation of titanium oxide and hydroxyapatite on Ti-6Al-4V alloy surface and electrochemical behaviour in bio-simulated fluid solution**. ***Corrosion Science*** 80 (**2014**) pp. 331–338. ISSN: **0010-938X.** **DOI: http://dx.doi.org/10.1016/j.corsci.2013.11.059**	**P.A. - 19**	**6.355 AIS 3.942**	**I - 20**
35	**Lidia BENEA,** Alina CIUBOTARIU, Wolfgang SAND. **Biofilm formation and corrosion resistance of Ni/SiC nanocomposite layers.** ***International Journal of Materials Research.*** 103 (2012) E page 1-9**. (2013)** Vol. 104, No. 5, pp.	**P.A. - 18**	**0.748 AIS 0.579**	**I - 19**

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
	489-497. ISSN: 1862-5282. **DOI 10.319/146.110893.**			
34	A. I. PAVLOV, **L. BENEA,** J.-P. CELIS, L. VAZQUEZ, **Influence of nano-TiO_2 co-deposition on the morphology, microtopography and crystallinity of Ni/Nano-TiO_2 electrosynthesized nanocomposite coatings**. ***Digest Journal of Nanomaterials and Biostructures***. Vol. 8, No. 3, July - September **2013**, p. 1043 - 1050. ISSN**:** 1842 – 3582. http://www.chalcogen.infim.ro/1043_Benea.pdf	**-**	**0.638 AIS 0.243**	**RO-16**
33	**Lidia BENEA.** **Electrochemical Impedance Spectroscopy and Corrosion Behavior of Co/CeO_2 Nanocomposite Coatings in Simulating Body Fluid Solution**. ***Metallurgical and Materials Transactions A***. Vol 43A, pp 1-9, 2012 (November). ISSN 1073-5623. VOLUME 44A, FEBRUARY 2013. p1114-1122. **DOI: 10.1007/s11661-012-1422-z**.	**P.A. - 17**	**1.985 AIS 2.066**	**I - 18**
32	Eliza Mardare, **Lidia BENEA**, and Jean-Pierre Celis. **Novel Nano-TiO_2 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.** http://www.chalcogen.infim.ro/933_Mardare.pdf http://connection.ebscohost.com/c/articles/77592308/novel-nano-tio2-layer-preparation-ti-6al-4v-support-alloy-their-characterization https://lirias.kuleuven.be/handle/123456789/361738		**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. **doi:10.1016/j.memsci.2011.10.025**	**-**	**7.015 AIS 3.818**	**I - 17**

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
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.** DOI: **http://dx.doi.org/10.1179/1743676111Y.0000000068**	**P.A. - 16**	**1.429 AIS 1.413**	**I - 16**
29	**Lidia BENEA**, Pierre PONTHIAUX, Francois WENGER. **Co-ZrO_2 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**.** **DOI: 10.1016/j.surfcoat.2011.05.050.**	**P.A. - 15**	**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.** **http://www.chalcogen.infim.ro/1025_Benea.pdf** **http://connection.ebscohost.com/c/articles/69673016/electrodeposition-uhmwpe-particles-cobalt-biomedical-applications**	**P.A. - 14**	**0.638 AIS 0.243**	**RO-14**
27	A. C. Ciubotariu, **L. Benea,** P. L. Bonora. **Corrosion studies of carbon steel X60 by electrochemical methods.** ***Journal of optoelectronics and advanced materials*. Volume: 12, Issue: 5 Published: MAY 2010, pp. 1170-1175. ISSN: 1454-4164.** https://getinfo.de/app/Corrosion-studies-of-carbon-steel-X60-by-electrochemical/id/BLSE%3ARN281843150	**-**	**0.588 AIS 0.169**	**RO-13**
26	**Lidia Benea,** **Electrodeposition and tribocorrosion behaviour of ZrO_2–Ni composite coatings**. ***Journal of Applied Electrochemistry*. (2009**) 39 1671–1681**. ISSN: 0021-891X.** **DOI:** 10.1007/s10800-009-9859-5.	**P.A. - 13**	**2.366 AIS 0.871**	**I 14**
25	**L. Benea**, F.Wenger, P. Ponthiaux, J.P. Celis.	**P.A. -**	**2.950**	**I - 13**

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
	Tribocorrosion behaviour of Ni-SiC nano-structured composite coatings obtained by electrodeposition. ***Wear*.** Volume: 266, Issue: 3-4, Published**: 2009,** 398-405. ISSN: 0043-1648**.** **DOI:** 10.1016/j.wear.2008.04.018.	**12**	**AIS 1.687**	
24	A. C. Ciubotariu, **L. Benea**, O. Mitoşeriu, P. Ponthiaux, F. Wenger. **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** *joam.inoe.ro/download.php?idu=1973* **http://cat.inist.fr/?aModele=afficheN&cpsidt=21655116**	**-**	**0.588 AIS 0.169**	**RO-12**
23	Felicia Bratu, **Lidia Benea**, Jean-Pierre Celis. **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.** http://www.revistadechimie.ro/pdf/BRADU%20F.pdf	**-**	**1.605 AIS 0.140**	**RO-11**
22	A. C. Ciubotariu**, L. Benea,** M. Lakatos–Varsanyi, V. Dragan. **Electrochemical impedance spectroscopy and corrosion behaviour of Al_2O_3-Ni nano composite coatings**. ***Electrochimica Acta*.** 53 (13), **2008,** 4557-4563**. ISSN: 0013-4686.** **DOI:** 10.1016/j.electacta.2008.01.020.	**-**	**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.surfocat.2006.12.027.	**-**	**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.	**-**	**2.950 AIS 1.687**	**I - 10**

N_{ref}	Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$ Domeniu roşu (red) filled in rosu (red) Domeniu galben (yellow) filled in galben (yellow)	Prim autor / P.A.	F.I. / SRI F. I. Cumulat	I / RO*
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.	-	**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**	**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**	**2.886** **AIS** **1.247**	**I - 7**
2007 TOP Cited Articles, Physics and Astronomy > **Solid State Ionics** **http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid-state-ionics/01672738/archive/11/**				
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.** ***Materials and Corrosion.*** Volume 53, Issue 1, Published**: 2002**, ISSN 0947-5117. 23-29**.** **DOI: 10.1002/1521-4176(200201)53:1<23::AID-MACO23>3.0.CO;2-0.**	**P.A. - 9**	**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**. ***Wear,*** Volume : 249, **2001** 995-1003. ISSN: 0043-1648**.** **doi:10.1016/S0043-1648(01)00844-4**	**P.A. - 8**	**2.950** **AIS** **1.687**	**I - 5**

N_{ref}	**Articole ISI publicate in Jurnale cu Factor de Impact $F.I. \geq 0.5$** **Domeniu roşu (red) filled in rosu (red)** **Domeniu galben (yellow) filled in galben (yellow)**	**Prim autor / P.A.**	**F.I. / SRI F. I. Cumulat**	**I / RO***
14	**Lidia BENEA**, Pier Luigi BONORA, Alberto BORELLO, Stefano MARTELLI, François WENGER, Pierre PONTHIAUX, Jacques GALLAND. **Composite electrodeposition to obtain nano-structured coatings**. ***Journal of The Electrochemical Society***. 148 (7), **2001**, ISSN: 0013-4651. C 461-C 465**.** **http://dx.doi.org/10.1149/1.1377279**.	**P.A. - 7**	***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**. *Materials and Corrosion*. 51,** Published: **2000, p. 491-495. ISSN 0947-5117.** **DOI: 10.1002/1521-4176(200007)51:7<491::AID-MACO491>3.0.CO;2-C.**	**P.A. - 6**	**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**. ***Materials and Manufacturing Processes. (****1999)* 14 (4), pp. 475-487. ISSN: 10426914. **DOI: 10.1080/10426919908914844**.	**-**	**3.350** **AIS** **0.938**	**I - 2**
11	**Lidia Benea.** **Electrodeposition of Zirconia Particles in a Copper Matrix.** ***Materials and Manufacturing Processes,*** Vol 14, No: 2, Publ. **1999,** pp. 231-242. ISSN: 1042-6914**.** 231-242**.** **DOI: 10.1080/10426919908914820.**	**P.A. - 5**	**3.350** **AIS** **0.938**	**I - 1**

(11-49) FI = 120.687
(1-10) FI = 2.394

10	**Lidia BENEA,** Adina – Ionica PAVLOV. Ni-TiO_2 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. **http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=81**	**P.A. - 4**	**0.452** **AIS** **0.067**	**RO-10**

9	E. MARDARE, **L. BENEA**, 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**.**	**-**	**0.452 AIS 0.067**	**RO-9**
8	Geta Cârâc, Cătălina Iticescu, **Lidia Benea**, Thomas Lampke and Siegfried Steinhauser. **The effect of nano-Al_2O_3 dispersed phase in nickel matrix electrocodeposited.** ***Revue Roumaine de Chimie. 52*** **(11), Published: 2007, pp. 1057–1062. ISSN: 0035-3930.**	**-**	**0.395 AIS 0.061**	**RO-8**
7	**L. BENEA**. **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**	**0.395 AIS 0.061**	**RO-7**
6	**L. BENEA. 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.**	**-**	**0.395 AIS 0.061**	**RO-6**
5	**LIDIA BENEA** and GETA CARAC. O**btaining of composite coatings by metal electrodeposition using dispersed particles**. *Metallurgy and New Materials Researches*. Vol V No 2**,** 1997, pp. 20-40.	**P.A. - 2**	**-**	**RO-5**
4	**LIDIA BENEA,** O. MITOSERIU AND MAGDA LAKATOS VARSANYI. **Electrodeposition of Zirconium Oxide and Silicon Carbide with Nickel**. *STUDIA UNIV. BABES BOLYAI, CHEMIA*. 41, 2, 1996, p. 233 – 315. ISSN (print): 1224-7154	**P.A. - 1**	**0.305 AIS 0.029**	**RO-4**
3	**LIDIA BENEA-(ENACHE)**; I.OVESEA; D. ENACHE, **Cercetari privind electrodepunerea cromului pe benzi din otel laminat la rece.** ***Metalurgia,*** 1993, 3, 19-25.		**-**	**RO-3**
2	**LIDIA BENEA**; CLIMANTA GRADINARIU SI C. SANDU**. Cercetari privind electrodepunerea staniului pe otel inoxidabil pentru fabricatia camerelor de ionizare , destinate centralelor nuclearo-energetice**. ***Metalurgia***, 1990, 42 (9-12), 427-429.		**-**	**RO-2**
1	I. OVESEA; **LIDIA BENEA,** OLGA MITOSERIU. **Posibilitati de reducere a consumului de zinc în procesul de electrodepunere.** ***Metalurgia,*** 1987, 39 (2) , 75-79.		**-**	**RO-1**

Articole publicate în volume indexate ISI Proceedings
Published papers in ISI Proceeding Volumes

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
		16	**43**
43	**L Benea**, and N Simionescu. **Corrosion behavior of Ni/WC nano-structured composite layers synthesized by electrochemical method**. IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012004. **doi:10.1088/1757-899X/572/1/012004**	**PA-16**	**I - 43**
42	N Simionescu**, L Benea**, and J P Celis. **Wear-corrosion response of Cerium oxide reinforced Cobalt hybrid composite layers in biological solution.** IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012003; **doi:10.1088/1757-899X/572/1/012003**		**I - 42**
41	L Dragus**, L Benea**, N Simionescu, A Ravoiu and V Neaga. **Effect of the inflammatory conditions and albumin presence on the corrosion behavior of grade 5 Titanium alloy in saliva biological solution.** IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012005; **doi:10.1088/1757-899X/572/1/012005**		**I - 41**
40	L Mardare and **L Benea.** **Marine corrosion behavior of EH 36 steel in the Black Sea.** IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012007. **doi:10.1088/1757-899X/572/1/012007**		**I - 40**
39	A Ravoiu1, N Simionescu and **L Benea.** **Influence of different concentration of hydrogen peroxide on the corrosion behavior of Ti-6Al-4V alloy immersed in physiological solution.** IOP Publishing; IOP Conf. Series: Materials Science and Engineering (2019) 012006. **doi:10.1088/1757-899X/572/1/012006.**		**I - 39**

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

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	Electrochemically **Growth on 1050 Aluminum Alloy Surface.** IOP Conf. Series: Materials Science and Engineering **374** (2018) 012013 doi:10.1088/1757-899X/374/1/012013.		
33	N Simionescu**, L Benea** and V M Dumitrascu**.** **The Synergistic Effect of Proteins and Reactive Oxygen Species on Electrochemical Behaviour of 316L Stainless Steel for Biomedical Applications.** IOP Conf. Series: Materials Science and Engineering **374** (2018) 012058. doi:10.1088/1757-899X/374/1/012058		**I - 33**
32	A Ravoiu**, L Benea** and A Chiriac**.** **Metabolic Albumin and Its Effect on Electrochemical Behavior of Titanium Implant Alloy** IOP Conf. Series: Materials Science and Engineering **374** (2018) 012077. doi:10.1088/1757-899X/374/1/012077		**I - 32**
31	**L Benea** and E Dănăilă**.** **Development of Electrodeposited Zn/nano-TiO2 Composite Coatings with Enhanced Corrosion Performance**. International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing IOP Conf. Series: Materials Science and Engineering **209** (2017) 012014. doi:10.1088/1757-899X/209/1/012014	**PA-13**	**I - 31**
30	L Mardare and **L Benea.** **Development of Anticorrosive Polymer Nanocomposite Coating for Corrosion Protection in Marine Environment.** International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing IOP Conf. Series: Materials Science and Engineering **209** (2017) 012056. doi: 10.1088/1757-899X/209/1/012056		**I - 30**

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

N_{ref}	**Articole publicate în volume indexate ISI Proceedings** **ISI Proceeding Volume**	**Prim autor / P.A.**	**I**
	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. https://doi.org/10.5593/sgem2017/61		
24	Laurentiu Mardare, **Lidia Benea**; **Corrosion of architecture and infrastructure elements in Romanian Black Sea littoral area;** 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. https://doi.org/10.5593/sgem2017/62		**I - 24**
23	Valentin Dumitrascu, **Lidia Benea**, Eliza Danaila; **Characterization of nanoporous aluminum oxide layersobtained by controlled anodic oxidation;** 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. https://doi.org/10.5593/sgem2017/61		**I - 23**
22	**Lidia Benea;** **Bio and nanomaterials in tribocorrosion systems.** Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1 2017 *1757-899X* **174** 012042 http://iopscience.iop.org/1757-899X/174/1/012042 **doi:10.1088/1757-899X/174/1/012042**	**PA-12**	**I - 22**
21	**L Benea**, E Dănăilă and P Ponthiaux**;** **Porous TiO_2-ZrO_2 thin film formed by electrochemical technique to improve the biocompatibility of titanium alloy in physiological environment.**	**PA-11**	**I - 21**

N_{ref}	**Articole publicate în volume indexate ISI Proceedings** **ISI Proceeding Volume**	**Prim autor / P.A.**	**I**
	Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1 2017 *1757-899X* **174** 012044 http://iopscience.iop.org/1757-899X/174/1/012044 **doi:10.1088/1757-899X/174/1/012044**		
20	**Lidia Benea,** Eliza Dănăilă, Pierre Ponthiaux and Jean-Pierre Celis**;** **Improving tribocorroson behaviour by electro-codeposition of TiC nano-dispersed particles with nickel as hybrid layers for energy applications** Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 174, conference 1 2017 *1757-899X* **174** 012045 http://iopscience.iop.org/1757-899X/174/1/012045 **doi:10.1088/1757-899X/174/1/012045**	**PA-10**	**I - 20**
19	L Mardare and **L Benea;** **Development of Anticorrosive Polymer Nanocomposite Coating for Corrosion Protection in Marine Environment.** Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 209, conference 1. 2017 *1757-899X* **209** 012056 **http://iopscience.iop.org/1757-899X/209/1/012056** **doi:10.1088/1757-899X/209/1/012056**		**I - 19**
18	**L. BENEA**, V.M. DUMITRASCU **Hybrid Composite Layers Obtained by Electro-codeposition: Challenges – Results and Future Applications.** **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.	**PA-9**	**I - 18**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	Book Series: International Multidisciplinary Scientific GeoConference-SGEM. **Pages:** 151-158. **Published:** 2016. **Conference:** 16th International Multidisciplinary Scientific Geoconference (SGEM 2016). **Location:** Albena, BULGARIA **Date:** JUN 30-JUL 06, 201 DOI: 10.5593/SGEM2016/B61/S24.020 http://www.sgem.org/sgemlib/spip.php?article7674 **WOS:000391648800020**		
17	M. LAURENTIU, **L. BENEA**, V. DUMITRASCU **Behavior of Naval Steel with Polymer Protective Coatings in Ses Water.** **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***, pp. 49-56, ISBN 978-619-7105-69-8 / ISSN 1314-2704. **Book Series:** International Multidisciplinary Scientific GeoConference-SGEM **Pages:** 49-56. **Published:** 2016 **Conference:** 16th International Multidisciplinary Scientific Geoconference (SGEM 2016) **Location:** Albena, BULGARIA. **Date:** JUN 30-JUL 06, 2016 DOI: 10.5593/SGEM2016/B62/S26.007 http://sgem.org/sgemlib/spip.php?article7989 **WOS:000391650000007**		**I - 17**
16	D. PIRVU-NEAGU, **L. BENEA**, V.M. DUMITRASCU, L. MARDARE. **Some Corrosion Problems in Municipal Waste Water Collection System of Galati.** 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings, Book 5 – ***Ecology, Economics, Education and Legislation***, Vol. 2 – ***Ecology and Environmental Protection***, pp. 743-750, ISBN 978-619-7105-66-7 / ISSN 1314-2704. DOI: 10.5593/SGEM2016/B52/S20.096 http://www.sgem.org/sgemlib/spip.php?article7559		**I - 16**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	WOS:000391519600096		
15	V. M. DUMITRASCU, **L. BENEA**, L. MARDARE. **Influence of Anodizing Voltage on the Morphology and Corrosion Resistance of 1050 Aluminum Alloy.** **NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM** **2016, VOL I, *Micro and Nano Technologies, Advances in Biotechnology***, pp. 167-174, ISBN 978-619-7105-68-1 / ISSN 1314-2704. **Book Series:** International Multidisciplinary Scientific GeoConference-SGEM. **Pages:** 167-174 **Published:** 2016 **Conference:** 16th International Multidisciplinary Scientific Geoconference (SGEM 2016) **Location:** Albena, BULGARIA **Date:** JUN 30-JUL 06, 2016 DOI: 10.5593/SGEM2016/B61/S24.022 http://www.sgem.org/SGEMLIB/spip.php?article7680 **WOS:000391648800022**		**I - 15**
14	**Lidia BENEA.** **Bio and nanomaterials in tribocorrosion systems.** 13th International Conference on Tribology, ROTRIB'16. IOP Conf. Series: Materials Science and Engineering **174** (2017) 012042. 12 pages. **13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)** **Book Series:** IOP Conference Series-Materials Science and Engineering **Volume:** 174 **Article Number:** UNSP 012042 **DOI:** 10.1088/1757-899X/174/1/012042 **Published:** 2017 www.**rotrib**16.ugal.ro/ **WOS:000399753500042**	**PA-8**	**I - 14**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
13	**Lidia BENEA**, Eliza DĂNĂILĂ, Pierre PONTHIAUX, Jean-Pierre CELIS. **Improving tribocorroson behaviour by electro-codeposition of TiC nanodispersed particles with nickel as hybrid layers for energy applications.** 13th International Conference on Tribology, ROTRIB'16. IOP Conf. Series: Materials Science and Engineering **174** (2017) 012045. 8 pages. **13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)** **Book Series:** IOP Conference Series-Materials Science and Engineering **Volume:** 174 **Article Number:** UNSP 012045 **DOI:** 10.1088/1757-899X/174/1/012045 **Published:** 2017. doi:10.1088/1757-899X/174/1/012045 www.**rotrib**16.ugal.ro/ **WOS:000399753500045**	**PA-7**	**I - 13**
12	**Lidia BENEA**, Eliza DĂNĂILĂ, Pierre PONTHIAUX. **Porous TiO_2-ZrO_2 thin film formed by electrochemical technique to improve the biocompatibility of titanium alloy in physiological environment.** 13th International Conference on Tribology, ROTRIB'16. IOP Conf. Series: Materials Science and Engineering **174** (2017) 012044. 6 pages. **13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16)** **Book Series:** IOP Conference Series-Materials Science and Engineering **Volume:** 174 **Article Number:** UNSP 012044 **DOI:** 10.1088/1757-899X/174/1/012044 **Published:** 2017 www.**rotrib**16.ugal.ro/ **WOS:000399753500044**	**PA-6**	**I - 12**
11	**Lidia BENEA**, Eliza DĂNĂILĂ, Valentin Marian DUMITRAŞCU, Pierre PONTHIAUX. **The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated**	**PA-5**	**I - 11**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	physiological solution. **Paper ID 60**, ***E-Health and Bioengineering - EHB 2015***. IEEE copyright notice: 978-1-4673-7545-0/15/$31.00 ©2015 IEEE. http://www.ehbconference.ro/Submission.aspx https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971 **2015 E-Health and Bioengineering Conference (EHB)** https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716 Denumire conferinţă: **Challenging Issues for Health and Biomedical Technologies.** ***E-Health and Bioengineering Conference (EHB).*** **Indexed in:** IEEE Xplore® data base, Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases. DOI: 10.1109/EHB.2015.7391574 **Accession Number: WOS:000380397900227**		
10	Eliza DĂNĂILĂ, **Lidia BENEA**, Pierre PONTHIAUX. **Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure Co coatings in a simulated physiological solution**. **Paper ID 61**. ***E-Health and Bioengineering - EHB 2015***. IEEE copyright notice: 978-1-4673-7545-0/15/$31.00 ©2015 IEEE. http://www.ehbconference.ro/Submission.aspx https://easychair.org/conferences/submission.cgi?submission=2475973;track=138896;a=9821051 **2015 E-Health and Bioengineering Conference (EHB)** https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716 Denumire conferinţă: **Challenging Issues for Health and Biomedical Technologies.** ***E-Health and Bioengineering Conference (EHB).*** **Indexed in:**		**I - 10**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	IEEE Xplore® data base, Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases. DOI: 10.1109/EHB.2015.7391574 **Accession Number: WOS:000380397900228**		
9	**3**. Eliza DĂNĂILĂ, **Lidia BENEA**. **The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution**. **Paper ID 277**. ***E-Health and Bioengineering - EHB 2015***. IEEE copyright notice: 978-1-4673-7545-0/15/$31.00 ©2015 IEEE. http://www.ehbconference.ro/Submission.aspx https://easychair.org/conferences/submission.cgi?track=138896;submission=2518923;a=9821051 **2015 E-Health and Bioengineering Conference (EHB)** https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716 Denumire conferinţă: **Challenging Issues for Health and Biomedical Technologies.** ***E-Health and Bioengineering Conference (EHB).*** **Indexed in:** IEEE Xplore® data base, Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases. DOI: 10.1109/EHB.2015.7391518 **Accession Number: WOS:000380397900171**		**I - 9**
8	**Lidia BENEA**, **Nanocomposite layers obtained by electro-co-deposition: Corrosion and tribocorrosion properties**. ISI Proceeding: Special issue of **Solid State Phenomena –** Corrosion and Surface Engineering . 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. **Indexed:** 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	**P.A. - 4**	**I - 8**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	(ISTP, CPCI, Web of Science) www.isinet.com, Institution of Electrical Engineers (IEE) www.iee.org, etc. DOI 10.4028/www.scientific.net/SSP.227.243		
7	Eliza DANAILA, **Lidia BENEA**, Iulian BOUNEGRU, **Corrosion behavior of novel hybrid Co/UHMWPE composite biocoating with applications as biomaterials**. ISI Proceedings: Special issue of ***Solid State Phenomena*** –Corrosion and Surface Engineering. 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. **Indexed:** 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. DOI: 10.4028/www.scientific.net/SSP.227.507		**I - 7**
6	**Benea, Lidia**; Danaila, Eliza ; Celis, Jean-Pierre. **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. **Digital Object Identifier :** 10.1109/EHB.2013.6707420 **Print ISBN:** 978-1-4799-2372-4 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 **http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6707420&abstractAccess=no&userType=inst** **WOS:000346672900188**	**P.A. - 3**	**I - 6**
5	Pralea - Mardare, Marilena; **Benea, Lidia** ; Danaila, Eliza ; Bounegru, Iulian. **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 **Digital Object Identifier : 10.1109/EHB.2013.6707233** Book Group Author(s): IEEE	-	**I - 5**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	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 **http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6707233&abstractAccess=no&userType=inst** **WOS:000346672900001**		
4	**L. Benea**, P. L. Bonora; A. Borello, S. Martelli, F. Wenger, P. Ponthiaux, and J. Galland. **Wear corrosion study of nanostructured composite coatings obtained by electroplating** Edited by: Sinclair, JD; Frankenthal, RP; Kalman, E; et al. ISI Conference: International Symposium on Corrosion and Corrosion Protection Location: SAN FRANCISCO, CA Date: SEP 02-07, 2001. Sponsor(s): Electrochem Soc, Corros Div; Electrochem Soc, Electr Div; Int Soc Electrochem, Corros Div. CORROSION AND CORROSION PROTECTION Book Series: ELECTROCHEMICAL SOCIETY SERIES Volume: 2001 Issue: 22, Pages: 851-862 Published: 2001. ISBN: 1-56677-355-5. http://apps.webofknowledge.com/summary.do?product=UA&parentProduct=UA&search_mode=GeneralSearch&parentQid=&qid=1&SID=2BMGmYbQsR4cufDDWxf&&update_back2search_link_param=yes&page=1 **WOS:000180622700101**	**P.A. - 2**	**I - 4**
3	**Benea, L. Comparative corrosion study of metal coatings and metal matrix composite coatings** Edited by: Natishan, PM; Isaacs, HS; JanikCzachor, M; et al. Conference: Symposium on Passivity and its Breakdown at the 1st Joint International Meeting of the Electrochemical-Society/International-Society-of-Electrochemistry Location: PARIS, FRANCE Date: SEP 01-05, 1997.Sponsor(s): Electrochem Soc, Corros Div. PROCEEDINGS OF THE SYMPOSIUM ON PASSIVITY AND ITS BREAKDOWN Book Series: ELECTROCHEMICAL SOCIETY SERIES Volume: 97 Issue: 26 Pages: 990-1000 Published: 1998. http://apps.webofknowledge.com/summary.do?product=UA&parentProduct=UA&search_mode=GeneralSearch&parentQid=&qid=1&SID=2BMGmYbQsR4cufDDWxf&&update_back2search_link_param=yes&page=1 **WOS:000076910000086**	**P.A. - 1**	**I - 3**
2	Mitoseriu O., Drugescu E., **Benea L.**, Levcovici S., Potecasu F., Constantinescu S., Cârâc G., Mitoseriu L. **Composite coatings obtained by sedimentation codeposition during copper, cobalt and iron electroplating.**	**-**	**I - 2**

N_{ref}	Articole publicate în volume indexate ISI Proceedings ISI Proceeding Volume	Prim autor / P.A.	I
	***SURFACE MODIFICATION TECHNOLOGIES XI*. Published: 1998, BOOK- INSTITUTE OF MATERIALS, 691, pp. 417-422. ISSN: 1366-5510** ISI Proceeding of Conference: 11th International Conference on Surface Modification Technologies Location: PARIS, FRANCE Date: SEP 08-10, 1997 Sponsor(s): Soc Francaise Met & Materiaux; Federat European Mat Soc; Inst Mat, London; Minerals, Met & Mat Soc; ASM Int SURFACE MODIFICATION TECHNOLOGIES XI Pages: 417-422 Published: 1998 ISI Proceeding of Conference: 11th International Conference on Surface Modification Technologies Location: PARIS, FRANCE Date: SEP 08-10, 1997. Web: https://getinfo.de/app/Composite-Coatings-Obtained-by-SedimentationCodeposition/id/BLSE%3ARN046456830 **WOS:000081833400048**		
1	Levcovici D.T., Munteanu V., Paraschiv M. M., Levcovici S. M., Mitoseriu O., **Benea L**. **The influence of thermal properties of MMC layers on the metal base during laser processing. *SURFACE MODIFICATION TECHNOLOGIES XI*.** Published: **1998**, *BOOK- INSTITUTE OF MATERIALS*, P**ublished:** 1998, BOOK- INSTITUTE OF MATERIALS, 691, pp. 649-660. **ISSN: 1366-5510.** Conference: 11th International Conference on Surface Modification Technologies Location: PARIS, FRANCE Date: SEP 08-10, 1997 Sponsor(s): Soc Francaise Met & Materiaux; Federat European Mat Soc; Inst Mat, London; Minerals, Met & Mat Soc; ASM Int SURFACE MODIFICATION TECHNOLOGIES XI Pages: 649-660 Published: 1998. ISI Proceeding of Conference: 11th International Conference on Surface Modification Technologies Location: PARIS, FRANCE Date: SEP 08-10, 1997 Sponsor(s): Soc Francaise Met & Materiaux; Federat European Mat Soc; Inst Mat, London; Minerals, Met & Mat Soc; ASM Int Web: https://getinfo.de/app/Composite-Coatings-Obtained-by-Sedimentation-Codeposition/id/BLSE%3ARN046456830 **WOS:000081833400073**	**-**	**I - 1**

Published papers in Internationall Data Base (BDI)
Lucrări publicate în baze de date internaţionale, reviste ale universităţilor (Anale, BDI, B+)

http://www.cncsis.ro
http://www.fmet.ugal.ro
http://www.csa.com/e_products/databases-collections.php
http://www.csa.com/ids70/serials_source_list.php?db=mechtrans-set-c

62 **Lidia BENEA,** Eliza DĂNĂILĂ.
Comparative Corrosion Behavior of Pure Copper and Brass in 3.5% NaCl Solution.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No. 2 - 2016, p. 19- 24. ISSN 1453 – 083X.

61 Laurenţiu MARDARE**, Lidia BENEA.**
Electrochemical Corrosion of Stainless Steels in Commercially Soft Drinks.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY ANDMATERIALS SCIENCE, No. 2 - 2016, p. 19- 24. ISSN 1453 – 083X.

60 Valentin Marian DUMITRAŞCU, Camelia STAICU**, Lidia BENEA** .
Corrosion Behavior of 1050 and 3003 Aluminum Alloys Used in Naval Industry.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No. 2 - 2016, p. 14- 19. ISSN 1453 – 083X.

59 Valentin Dumitraşcu**, Lidia Benea.**
Influence of the Anodic Oxidation Treatment on the Corrosion Behaviour of Aluminium and Aluminium Alloys.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, N^{o}. 3 – 2015, pag. 10 - 16. ISSN 1453 – 083X.

58 Adrian Diaconu, Cătălin Solomon**, Lidia Benea,** Valentin Dumitraşcu, Laurenţiu Mardare.
Corrosion Resistance of Zinc Coated Steel in Sea Water Environment.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, N^{o}. 3 – 2015, pag. 43 - 48. ISSN 1453 – 083X.

57 Alina Ciubotariu, **Lidia Benea,** Wolfgang Sand**.**
Surface Roughness and Topography of Ni / Micro-SiC Layers: Influence of Current Density on Electrodeposition Process.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, N^{o}. 4 – 2015, pag. 5 - 10. ISSN 1453 – 083X.

56 Georgeta Toderaşcu, Valentin Dumitraşcu, **Lidia Benea**, Alexandru Chiriac**.**
Corrosion Behaviour and Biocompatibility of 316 Stainless Steel as Biomaterial in Physiological Environment.
THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX.

METALLURGY AND MATERIALS SCIENCE, N°. 4 – 2015, pag. 15 - 22. ISSN 1453 – 083X.

55

Alina Crina CIUBOTARIU, **Lidia BENEA**, Wolfgang SAND.
Effects of sulphate reducing bacteria on thermosetting polymers/Zn composite coatings.
Scientific Bulletin "Mircea cel Batran" Naval Academy, Volume XVIII – 2015 – Issue 1, pag. 162 – 166, ISSN: 1454-864X.
http://www.anmb.ro/buletinstiintific/buletine/2015_Issue1/MES/162-166.pdf

54

Lidia BENEA Iulian BOUNEGRU, Alexandru CHIRIAC.
Characterization and corrosion-resistance performance of hybrid Co/UHMWPE composite biocoatings.
Manuscript Number: 1_978-0-00003-328-4_50
Advanced Materials Research - Proceedings of the International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.
http://www.smatscitech.com/
http://www.smatscitech.com/index.php/congress-information/congress-journals
Advanced Materials Research, ISSN: 1662-8985.
Periodical: ***Advanced Materials Research***, Volume 1139, Main Theme: ***Sustainable Materials Science and Technology***, Chapter 3: ***Materials and Alloys for Biomedical Application***, Edited by: Paulo Sérgio Duque de Brito, Pages: 69-73, ISSN: 1662-8985, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-27.
DOI: 10.4028/www.scientific.net/AMR.1139.69
http://www.scientific.net/AMR.1139.69

53

Lidia BENEA, Eliza DĂNĂILĂ, Valentin Marian DUMITRAŞCU.
Vegetable extracts as inhibitors of carbon steel corrosion in acidic environment.
Manuscript Number: 2_978-0-00003-328-4_60
Advanced Materials Research - Proceedings of the International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.
http://www.smatscitech.com/
http://www.smatscitech.com/index.php/congress-information/congress-journals
Advanced Materials Research, ISSN: 1662-8985.
Periodical: ***Advanced Materials Research***, Volume 1139, Main Theme: ***Sustainable Materials Science and Technology***, Chapter 2: ***Biotechnologies***, Edited by: Paulo Sérgio Duque de Brito, Pages: 46-51, ISSN: 1662-8985, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-27.
DOI: 10.4028/www.scientific.net/AMR.1139.46
http://www.scientific.net/AMR.1139.46

52

Eliza DĂNĂILĂ, **Lidia BENEA**.
Comparative tribocorrosion resistance in physiological solution of untreated and modified Ti-6Al-4V alloy surface by electrodeposition of hydroxyapatite coatings into nanoporous titania layers.
Manuscript Number: 3_978-0-00003-328-4_70
Advanced Materials Research - Proceedings of the International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.

http://www.smatscitech.com/
http://www.smatscitech.com/index.php/congress-information/congress-journals
Advanced Materials Research, ISSN: 1662-8985.
Periodical: ***Advanced Materials Research***, Volume 1139, Main Theme: ***Sustainable Materials Science and Technology***, Chapter 3: ***Materials and Alloys for Biomedical Application***, Edited by: Paulo Sérgio Duque de Brito, Pages: 64-68, ISSN: 1662-8985, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-27.
DOI: 10.4028/www.scientific.net/AMR.1139.64
http://www.scientific.net/AMR.1139.64

51

Lidia BENEA, Valentin DUMITRAŞCU, Eliza DĂNĂILĂ, Iulian BOUNEGRU.
Electrochemical behavior of cobalt - chromium alloy as biomaterial in different pH environments.
Manuscript Number: 4_978-0-00003-328-4_100
Advanced Materials Research - Proceedings of the International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.
http://www.smatscitech.com/
http://www.smatscitech.com/index.php/congress-information/congress-journals
Advanced Materials Research, ISSN: 1662-8985.
Periodical: ***Advanced Materials Research***, Volume 1139, Main Theme: ***Sustainable Materials Science and Technology***, Chapter 3: ***Materials and Alloys for Biomedical Application***, Edited by: Paulo Sérgio Duque de Brito, Pages: 59-63, ISSN: 1662-8985, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-27.
DOI: 10.4028/www.scientific.net/AMR.1139.59
http://www.scientific.net/AMR.1139.59

50

Lidia BENEA, Eliza DĂNĂILĂ.
Electrochemical codeposition of UHMWPE biopolymer into cobalt matrix for biomedical applications.
Paper ID: 978-3-03835-557-1_140.
Key Engineering Materials, ISSN: 1662-9795.
http://www.if.ugal.ro/PPE2015/Authors.htm
http://www.scientific.net/Participant/Papers/4127
Proceedings of the the 3th International Conference on Polymers Processing in Engineering (PPE 2015) - ***Key Engineering Materials***, 24 – 26 Septembrie 2015, Universitatea ”Dunărea de Jos„ din Galați, România.
http://www.if.ugal.ro/PPE2015/
Periodical: ***Key Engineering Materials***, Volume: 699, Main Theme: ***Polymers and Composites in Engineering: Processing, Properties and Applications*****,** Edited by: Felicia Stan, Pages: 57-62, ISSN: 1662-9795, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-05.
DOI: 10.4028/www.scientific.net/KEM.699.57
http://www.scientific.net/KEM.699.57

49

Alina Crina CIUBOTARIU, **Lidia BENEA**, Pierre PONTHIAUX.
Phenol – Formaldehyde Resin to Improve Corrosion Resistance of Zinc Layers, **Paper. ID: 978-3-03835-557-1_150**.
http://www.if.ugal.ro/PPE2015/Authors.htm
http://www.scientific.net/Participant/Papers/4127
Proceedings of the the 3th International Conference on Polymers Processing in Engineering

(PPE 2015) - ***Key Engineering Materials***, 24 – 26 Septembrie 2015, Universitatea ”Dunărea de Jos„ din Galați, România.
http://www.if.ugal.ro/PPE2015/
Key Engineering Materials, ISSN: 1662-9795.
Periodical: ***Key Engineering Materials***, Volume: 699, Main Theme: ***Polymers and Composites in Engineering: Processing, Properties and Applications,*** Edited by: Felicia Stan, Pages: 63-70, ISSN: 1662-9795, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-05.
DOI: 10.4028/www.scientific.net/KEM.699.63
http://www.scientific.net/KEM.699.63

48

Laurentiu MARDARE, **Lidia BENEA**, Eliza DĂNĂILĂ, Valentin DUMITRAŞCU.
Polymeric coatings used against marine corrosion of naval steel EN32.
Paper ID: 978-3-03835-557-1_160.
Key Engineering Materials, ISSN: 1662-9795.
http://www.if.ugal.ro/PPE2015/Authors.htm
http://www.scientific.net/Participant/Papers/4127
Proceedings of the the 3th International Conference on Polymers Processing in Engineering (PPE 2015) - ***Key Engineering Materials***, 24 – 26 Septembrie 2015, Universitatea ”Dunărea de Jos„ din Galați, România.
http://www.if.ugal.ro/PPE2015/
Key Engineering Materials, ISSN: 1662-9795.
Periodical: ***Key Engineering Materials***, Volume: 699, Main Theme: ***Polymers and Composites in Engineering: Processing, Properties and Applications,*** Edited by: Felicia Stan, Pages: 71-79, ISSN: 1662-9795, © 2016 Trans Tech Publications, Switzerland. Online: 2016-07-05.
DOI: 10.4028/www.scientific.net/KEM.699.71
http://www.scientific.net/KEM.699.71

47

Eliza DANAILA, **Lidia BENEA**, Iulian BOUNEGRU, **Corrosion behavior of novel hybrid Co/UHMWPE composite biocoating with applications as biomaterials**, special issue of ***Solid State Phenomena***, - *Corrosion and Surface Engineering*. (Volume 227). Proceedings of International Scientific Conference CORROSION 2014, 18 – 21 November 2014, Gliwice, Poland. (p. 1-4). p 507-511.
ISSN: 1662-9779. Editura: TRANS TECH PUBLICATIONS, Materials Science and Engineering..
Indexed: 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.
http://www.ttp.net/978-3-03835-391-1/13.html
http://www.scientific.net/SSP.227.507
E. Danaila, **L. Benea**, I. Bounegru, "Corrosion Behavior of a Novel Hybrid Co/UHMWPE Composite Biocoating with Potential Application as a Biomaterial", *Solid State Phenomena*, Vol. 227, pp. 507-510, 2015
10.4028/www.scientific.net/SSP.227.507

46

Lidia BENEA, **Nanocomposite layers obtained by electro-co-deposition: Corrosion and tribocorrosion properties**. ISI Proceeding: Special issue of **Solid State Phenomena – *Corrosion and Surface Engineering***, (Volume 227). Proceedings of International Scientific Conference CORROSION 2014, 18 – 21 November 2014, Gliwice, Poland, (p. 1-4), pp. 243-.246, 2015. ISSN: 1662-9779. Ed. House: TRANS TECH PUBLICATIONS, Materials Science and Engineering.

Indexed: 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.
http://www.ttp.net/978-3-03835-391-1/6.html
http://www.scientific.net/SSP.227.243
L. Benea, "**Nanocomposite Layers Obtained by Electro-Co-Deposition: Corrosion and Tribocorrosion Properties**", *Solid State Phenomena*, Vol. 227, pp. 243-246, 2015.
10.4028/www.scientific.net/SSP.227.243

45 **Lidia Benea**, **Studying tribocorrosion processes in biomedical and industrial applications**, *CD Proceedings Volume of 8th International Conference on Tribology – Balkantrib'14*, 30 October – 1 November 2014, Sinaia, România, pg. 425–431.
ISBN: 978–973–719–570–8.

44 Eliza DĂNĂILĂ, **Lidia BENEA**, Jean-Pierre CELIS, **Tribo-electrochemical characterization of Ti-6Al-4V alloy and nanoporous TiO2 layer in simulated body fluid solution**, *CD Proceedings Volume of 8th International Conference on Tribology – Balkantrib'14*, 30 October – 1 November 2014, Sinaia, România, pg. 455–458.
ISBN: 978–973–719–570–8.

43 Sorin–Bogdan BAŞA, **Lidia BENEA**, Nadège CARON, Olivier RAQUET, Pierre PONTHIAUX, Jean-Pierre CELIS, **Tribocorrosion behaviour of the Ni/TiC nanocomposite coatings in solution simulating the corrosion environment from the nuclear primary cooling systems**, *CD Proceedings Volume of 8th International Conference on Tribology –Balkantrib'14*, 30 October – 1 November 2014, Sinaia, România, pg. 849-854.
ISBN: 978–973–719–570–8.

42 **Lidia BENEA**, Studying tribocorrosion processes in biomedical and industrial applications, *Book of Abstracts Balkantrib'14* – 8th International Conference on Tribology, 30 October – 1 November 2014, Sinaia, România, pg. 91. Publishing House Petroleum–Gaz University of Ploieşti, România.
ISBN: 978–973–719–571–5.

41 Eliza DĂNĂILĂ**, Lidia BENEA**, Jean-Pierre CELIS, **Tribo-electrochemical characterization of Ti-6Al-4V alloy and nanoporous TiO2 layer in simulated body fluid solution**, *Book of Abstracts Balkantrib'14* – 8th International Conference on Tribology, 30 October – 1 November 2014, Sinaia, România, pg. 96.
Publishing House Petroleum–Gaz University of Ploieşti, România.
ISBN: 978–973–719–571–5.

40 Sorin Bogdan BAŞA, **Lidia BENEA**, Nadège CARON, Olivier RAQUET, Pierre PONTHIAUX, Jean-Pierre CELIS, **Tribocorrosion behaviour of the Ni/TiC nanocomposite coatings in solution simulating the corrosion environment from the nuclear primary cooling systems,** *Book of Abstracts Balkantrib'14* – 8th International Conference on Tribology, 30 October – 1 November 2014, Sinaia, România, pg. 149.
Publishing House Petroleum–Gaz University of Ploieşti, România.
ISBN: 978–973–719–571–5.

39 Lidia BENEA, Eliza Mardare DĂNĂILĂ, Iulian BOUNEGRU, **Challenges in corrosion protection using vegetable extracts as inhibitors – Electrochemical studies**, *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science*, No. 3, pg. 14 – 19, 2014.
ISSN 1453 – 083X.

38 Doiniţa NEAGU (PÎRVU**), Lidia BENEA**, Eliza DĂNĂILĂ, **Aspects of materials decay under chemical attack from the leachate treatment plant of the Tirighina waste landfill**, *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science*, No. 2, 2014, pg. 10 – 16.
ISSN 1453 – 083X.

37 Sorin–Bogdan BAŞA, **Lidia BENEA**, **Tribocorrosion – insight into material degradation in specific environments**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science*, No. 1, pg. 5 – 12, 2014.
ISSN 1453 – 083X.

36 Eliza DĂNĂILĂ, Iulian BOUNEGRU**, Lidia BENEA**, Alexandru CHIRIAC, **Improving biocompatibility of Co–Cr alloy used in dentistry by surface modification with electrochemical methods – corrosion of untreated Co–Cr alloy in solution with different pH**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science*, No. 2, pg. 54 – 59, 2014.

35 Eliza MARDARE, **Lidia BENEA**, Iulian BOUNEGRU – **Electrochemical Modifications of Titanium and Titanium Alloys Surface for Biomedical Applications – a Review**. *The Annals of "Dunarea de Jos" University of Galati. Fascicle IX. Metallurgy and Materials Science*, N0. 1 – 2013, pp. 68-78. ISSN 1453 – 083X.

34. Florentina Simona Şorcaru, **Lidia Benea. Nanocomposite coatings obtained by electro – co- deposition of inert particles with cobalt – A review.** *The Annals of "Dunarea de Jos" University of Galati***.** Fascicle IX Metallurgy and Materials Science nr. 3, **2012**, pp. 27-37. ISSN 1453 – 083X.

33. Eliza MARDARE, **Lidia BENEA,** Jean-Pierre CELIS**. INFLUENCE OF NORMAL LOADS ON CORROSION BEHAVIOUR OF Ti-6Al-4V ALLOY DURING FRETTING IN ARTIFICIAL SALIVA**. The Annals of "Dunarea de Jos" University of Galati.Fascicle IX. Metallurgy and Materials Science, N0. 1 – 2012, pp. 68-74. ISSN 1453 – 083X.

32 Adina Pavlov, **Lidia Benea**. **Influence of co-deposition parameters for electrochemical synthesis of Ni-TiO_2 nanocomposite coatings – A Review**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science. Year XXIX (XXXIV), May 2011, Special Issue, May 2011. pp. 89-95.
ISSN 1453-083X.

31 Alina Ciubotariu, **Lidia Benea**, Wolfgang Sand**. Sulphate Reducing Bacteria in Biofilms on Thermosetting Polymers/Zn Composite Layers**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science. Year XXIX (XXXIV), May 2011, no. 1. pp. 51-57. ISSN 1453-083X.

30 Stefan Balta, **Lidia Benea**, Bart van der Bruggen - **Influence of the Nanoparticles Size on the Permeation Properties of the Polymeric Membranes**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science. Year XXIX (XXXIV), May 2011, no. 1. pp. 19-25. ISSN 1453-083X.

29 **Lidia Benea**, Alina Ciubotariu, Bernard Tribollet, Wolfgang Sand. *Influence of SiC/Ni Nanocomposite Coatings on SRB Attachment and Biofilm Formation. The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science, Year XXVIII (XXXIII), 2010, no. 3, p. 71-7., ISSN 1453-083X.

28 **Lidia Benea**, Viorel Dragan, Bernard Tribollet**. Electrochemical Corrosion Properties of SiC/Ni Nano-Composite Coatings in 0.5M NaCl**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science, Year XXVIII (XXXIII), 2010, no. 4, pp. 45-50. ISSN 1453-083X.

27 Alina – Crina Ciubotariu, **Lidia Benea**, Olga Mitoşeriu, Wolfgang Sand**. Morphological Aspects of Thermosetting Polymers/Zn Composite Coatings.** *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX.* Metallurgy and Materials Science, Year XXVIII (XXXIII), 2010, no. 4, pp. 78-83, ISSN 1453-083X.

26 **Lidia Benea**, Marilena Mardare-Pralea, Paula Cojocaru, **Electrochemical Deposition and SEM Surface Morphology of Co and UHMWPE/Co Composite Layers**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*. Metallurgy and Materials Science, Year XXVII (XXXII), 2009, no. 1, pp. 108-114, ISSN 1453-083X.

25 Alina Crina Ciubotariu**, Lidia Benea, Olga Mitoşeriu, Pierre Ponthiaux, François Wenger**, *Morphological Aspects and Corrosion Behaviour of Phenol Formaldehyde/Zn Composite Coatings*, The Annals of "Dunarea de Jos" University of Galati, Fascicle IX. Metallurgy and Materials Science, Year XXVII (XXXII), 2009, no. 2, pp. 31-37, ISSN 1453-083X.

24 **Lidia Benea,** Florentina Simona Sorcaru, Pierre Ponthiaux, Francois Wenger, **Study of ZrO_2/Co-Deposition with Cobalt from Chloride Electrolyte**, *The Annals of "Dunarea de Jos" University of Galati. Fascicle IX.* Metallurgy and Materials Science, Year XXVII (XXXII), 2009, no. 2, pp. 48-54, ISSN 1453-083X.

23 O. Mitoseriu, A. Ciubotariu, **L. Benea**, P. Ponthiaux, F. Wenger, **Electrodeposition obtaining and corrosion behaviour of phenol formaldehyde resin/zinc composite coatings.** *The Annals of "Dunarea de Jos" University of Galati. Fascicle IX*. Metallurgy and Materials Science, Year XXVI (XXXI), 2008, no. 2, pp. 97-102, ISSN 1453-083X.

22 **Lidia BENEA[1],** Viorel DRĂGAN[1], **Study of tribocorrosion processes by electrochemical techniques ,** *The Annals of "Dunarea de Jos" University of Galati,* Fascicle IX, Faculty of Metallurgy and Materials Science, Year XXIII (XXVIII), 2007, no. 1, pp. 17-26.

21 **Lidia Benea**, François Wenger, Pierre Ponthiaux, Jean-Pierre Celis; **Improved hardness and tribocorrosion properties of nickel coatings by co - depositing ZrO_2 micro - sized dispersed phase during electroplating process.***The Annals of "Dunarea de Jos" University of Galati,* Fascicle IX, Faculty of Metallurgy and Materials Science, Year XXIII (XXVIII), 2006, no. 1, pp. 17-26 , ISSN 1453-083X.

20 **L. Benea**, P.L. Bonora, F. Wenger; **Nanostructured composite coating Ni-SiC Obtained by electrodeposition**., *Buletinul Institutului Politehnic Iasi, Universitatea Tehnica GH. ASACHI Iasi,, Tomul LII(LVI), Fasc.I***,** Stiinta si Ingineria Materialelor, 2006, pp.59-69, ISSN 1453-1690.

19 **Benea L.**, Iordache V. E., Wenger F., Ponthiaux P., Peybernes J., Vallory J.; **Tribocorrosion mechanism study of stellite6 and zircalloy4 – comparison in LiOH-H_3BO_3 solutions**. *The Annals University of Galati, Fascicle VIII Tribology*, pp. 5-10; 2005, ISSN 1221-4590. http://www.im.ugal.ro/AnnalsFasc8Tribology/index.htm

18 **Lidia Benea**; Interfaces, Corrosion and Electrochemical Systems – research in nano and micro materials*;* ***Micro and Nanotechnologies Bulletin***. Vol 6/ No.4, December 2005, pp. 8-9.
http://www.imt.ro/mnt/V6N4/Page8.pdf

17. **Lidia Benea,** Viorel Iordache, François Wenger, Pierre Ponthiaux; **Nanostructured SiC-Ni composite coatings obtained by electrodeposition – A Tribocorrosion study.** *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX***,** Faculty of Metallurgy and Materials Science**,** Year XXIII (XXVIII), mai 2005, no. 1, pp. 5-10, ISSN 1453-083X.

16. Pier Luigi Bonora, **Lidia Benea**, François Wenger, Alberto Borello, Stefano Martelli, Pierre Ponthiaux; **Tribocorrosion Aspects of Nano - Structured SiC – Nickel Composite Coatings**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*, Faculty of Metallurgy and Materials Science; Year XXI (XXVI), 2003, nov, N 2, ISSN 1453-083X; pp. 18-24.

15. **Lidia Benea,** Magda Lakatos-Varsanyi, George Maurin.**; The Electrolytic Co-deposition of Zirconium Oxide Particles with Nickel**; *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX***,** Faculty of Metallurgy and Materials Science; Year XXI (XXVI), 2003, nov, N°2, ISSN 1453-083X; pp. 10-18.

14. **Lidia Benea**, Pier Luigi Bonora, Francois Wenger, Pierre Ponthiaux. **Modified Surfaces by Micro and Nano Structured Composite Coatings: Structural Aspects and Corrosion Properties.** *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Faculty of Metallurgy and Materials Science*; Year XXI (XXVI), 2003, MAY, N°1, ISSN 1453-083X; pp. 43-54.

13. François WENGER, **Lidia BENEA**, Pierre PONTHIAUX. **Tribocorrosion mechanism of plasma sprayed Stellite6 layer in sulphuric acid medium**. *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX*, Metallurgy and Materials Science; Year XX (XXV), 2002, ISSN 1453-083X; p. 21-30.

12. **Lidia Benea** and Geta Carac. **Obtaining of composite coatings by metal electrodeposition using dispersed particles**. *Metallurgy and New Materials Researches.* Vol V No 2**,** 1997, p. 20-40, (1997).

11. **Lidia Benea. Electrodepuneri compozite. Realizari – Perspective.** Volumul *"ECOLOGIE-ACOPERIRI METALICE-COROZIUNE"*, 1997, Editura Tehnica, TCMM, Vol. 25**, ISBN 973-31-1113-9,** p.107-124, (1997).

10. **Lidia Benea. Codepunerea particulelor ceramice de ZrO_2 si SiC în matrice de nichel.** Volumul "*TEHNOLOGII NOVATIVE PREZENT SI PERSPECTIVE*", 1997, Editura Tehnica, TCMM, Vol. 32, ISBN 973-31-1113-9, p.183-198, (1997).

9. **Lidia Benea,** O. Mitoseriu and Magda Lakatos Varsanyi. **Electrodeposition of Zirconium Oxide and Silicon Carbide with Nickel.** *STUDIA UNIV. BABES BOLYAI, CHEMIA*, 41, 2, 1996, p. 233 – 315.

8. **O.** Mitoseriu, **L. Benea**, M. Vlad, M. Popescu, L. Balint. **Contributii privind electrodepunerea aliajelor Zn-Fe pe suport din otel.** *Analele Universitatii Eftimie Murgu Resita,* Fascicula III, anul III, 1996, p. 323-329, (1996).

7. **Lidia Benea,** Olga Mitoseriu. **Investigations of Protecting Coatings Corrosion Resistance in Metallic Systems**. 5 pagini. *Analele Universitãtii Galati,* Vol. 4, Metalurgie, 1995.

6. **Lidia BENEA. Corrosion Studies by Impedance Spectroscopy Method.** *Analele Universitãtii Galati,* Anul IX, fascicula 9, 1994 *Metalurgie si Stiinta Materialelor,* p. 44-48, (1994).

5. F. Oprea, O. Mitoseriu, M. Popescu, **L. Benea,** M. Vlad, E. Drugescu. **Electrochemical Thin Composite Layers Note I Nickel Matrix Composite Coatings.** *Analele Universitãtii Galati, Vol. 3, Metalurgie,* p. 5-14, 1992.

4. E. Drugescu, O. Mitoseriu, F. Potecasu, M. Popescu, **L. Benea. Electrochemical Thin Composite Layers Note II Structural Aspects of Composite Coatings Electroplated.** *Analele Universitãtii Galati, Vol. 3, Metalurgie,* pag. 15-24, 1992.

3. O. Mitoseriu, M. Popescu, E. Drugescu, O. Potecasu, F. Potecasu, **L. Benea. Cu Ni Alloys Corrosion in Sea Water. Part I - Chemical Composition Influence on Corrosion Behaviour of Cu-Ni Alloys in Sea Water.** *Analele Universitãtii Galati*, fascicula 9 anul IX , 1991, *Metalurgie si Stiinta Materialelor* p. 7-14 (1991).

2. E. Drugescu, O. Mitoseriu, O. Potecasu, F. Potecasu, M. Popescu, **L. Benea. Cu-Ni Alloys in Sea Water. Part II - The Influence of Material Structure on Corrosion Behaviour of Cu-Ni Alloys in Sea Water**. *Analele Universitãtii Galati*, fascicula 9 anul IX , 1991, *Metalurgie si Stiinta Materialelor* p. 15 –20 (1991).

1. Olga Mitoseriu; **Lidia Benea** ; Viorica Bujoreanu. **Reactivi selectivi pentru determinarea mercurului din apele poluate.** *Analele Universitatii Galati,* fascicola IX , 1986 *Metalurgie*, p. 27 - 32. (1986).

Septembrie 2019

-----//-----

Lucrări publicate în reviste recunoscute tip B
Published papers in UEFISCDI journals B

11. Lidia Benea, F.S. Sorcaru, P. Ponthiaux, F. Wenger. **Mecanismul de codepunere a nanostraturilor de CeO2/Co**. ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Volumul VI, Anul 2011, Nr. 1, p. 32-43, ISSN 1842-0346.

10. Balta Stefan, Bodor Marius, **Benea Lidia**. **Influence of polymer concentration on the permeation properties of nanofiltration membranes.** ***TEHNOMUS Journal***. *New Technologies and Products in Machine Manufacturing Technologies.* Year: 2011 - Volume: 1, nr 18. p. 227-233. ISSN: **P - ISSN-1224-029X. E - ISSN-2247-6016.**

9. Lidia Benea. **Să învăţăm de la specialişti: depunerea electrochimică – ştiinţă şi tehnologie pentru viitor**, ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Volumul V, Anul 2010, Nr. 2, p. 41-45, ISSN 1842-0346.

8. Alina – Crina Ciubotariu**, Lidia Benea,** Wolfgang Sand, **Investigarea prin metoda microscopiei de forţă atomică a aspectelor structurale ale straturilor compozite polimeri termoreactivi**, ***Revista de Coroziune şi Protecţie Anticorozivă,*** Cluj-Napoca, Volumul V, Anul 2010, Nr. 3, p. 13-23, ISSN 1842-0346.

7. Lidia Benea. Editorial – Tribocorrosion in biomedical and industrial applications. ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Volumul V, Anul 2010, Nr. 4, p. 4-7, ISSN 1842-0346.

6. Stefan Balta**, Lidia Benea,** Bart Van der Bruggen**. Prepararea membranelor PES cu nanoparticole de oxizi pentru nanofiltrarea apei,** ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Volumul V, Anul 2010, Nr. 4, p. 38-52, ISSN 1842-0346.

5. A. Ciubotariu**, L. Benea,** M. Lakatos – Varsany, **Imbunătăţirea rezistenţei la coroziune prin modificări structurale induse de codepunerea particulelor ceramice cu nichel**, ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Vol III, Nr 1, 2008, p. 43-47, ISSN 1842-0346.

4. F. Bratu, **L. Benea**, J. P. Celis. **Comportamentul tribocoroziv al oţelului AISI 304L in soluţie Ringer**, ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Vol III, Nr 2, 2008, p. 28 - 34, ISSN 1842-0346.

3. Lidia Benea, **Aspecte electrochimice şi structurale in codepunerea particulelor disperse nanometrice de SiC cu nichel,** ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, Vol III, Nr 3, 2008, p. 19 - 25, ISSN 1842-0346.

2. Lidia Benea, **Coroziunea - pentru a combate mai bine acest „duşman" trebuie să-l cunoaştem mai bine**. ***Revista de Coroziune şi Protecţie Anticorozivă***, Cluj-Napoca, vol. 1, nr. 1, 2006, p. 5, ISSN: 1842-0346.

1. O. Mitoseriu, M. Vlad, M. Popescu, **Lidia Benea**, E. Drugescu, F. Potecasu. **Cercetari privind obtinerea de straturi subtiri de tip compozit pe suport metalic**. *TEHNOMUS journal. Editia a III-a, mai 1995, Suceava, Vol. IV Tehnologii si produse noi în constructia de masini*. pag. 1-8, (1995).

September 2019 Prof. univ. dr (Ph.D.) Lidia BENEA

-- // --

Cărţi, capitole şi volume publicate
Books and chapters in books

Nr crt	Autori/Titlu/Editura/An
23	**Lidia Benea** **Metode Avansate de Investigare a Materialelor** **Advanced Methods for Materials investigations**  **ISBN: 978-606-606-003-5** Nr. de pagini: 350 Anul apariţiei: 2017 - 2018 Editura: Academica. Editor Lidia Benea. 350 pagini.
22	**Lidia BENEA** **COROZIUNE ŞI PROTECŢII ANTICOROZIVE - DE LA TEORIE LA PRACTICĂ** **Corrosion and Corrosion Protection - From Theory to Practice.**  **Editura Academica. 2017, 400 pagini.** **Editor: Lidia Benea.** **ISBN 978-973-8937-99-4.**
21	**Lidia BENEA**. **ELECTRODEPUNERI COMPOZITE – IN TEORIE SI PRACTICA.** **COMPOSITE ELECTRODEPOSITION: THEORY AND PRACTICE.**  Editura PORTO FRANCO, 1998; 187 pagini. ISBN 973 557 490 X.
20	**Lidia. BENEA.** **CHIMIE GENERALĂ,** Edit. Academica, **2009, 315 pagini.**

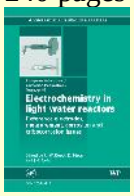
	 Editura Academica, **2009, 315 pagini.** **ISBN: 978-973-8937-45-1.**
19	**Editors: L.. Benea**, G. Cârâc; 2009. Action Number: D33. Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-Aqueous Interfaces of Industrial Materials - Final Workshop.  **Editura Alma Print. ESF – COST. 2009. 97 pagini.** **ISBN/ISSN: 978-973-1937-09-0.** http://www.cost.esf.org/library/publications/(pbno)/8
18	**Editors: Prof. Univ. Dr. Lidia BENEA**, Assoc. Prof. Dr. Simion BALIN **DVD Proceedings: COST D33 Final Workshop, May 13th May 15th 2009, Cluj Napoca ROMANIA.** **Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials**   **Publisher: GALATI UNIVERSITY PRESS** **Romania, 2009** **ISBN: 978 - 606 - 8003 - 30 – 1.**
17	**Chapter in the book: Project Report.** **Lidia BENEA: CH10. Nanostructured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigations. pp. 69-79.** **COST ACTION 532, Materials, Physical and Nanosciences.** **Triboscience and tribotechnology superior friction and wear control in engines and transmissions.**  **EUR 23308.** **ISBN: 978-92-898-0040-2** **ESF COST Office Brussels, Belgium, 2008.**
16	**Chapter in the book:** **L. Benea**, F. Wenger, P. Ponthiaux, J.P. Celis.

Tribocorrosion behaviour of Ni-SiC nanostructured composite coatings obtained by electrodeposition. pp. 119-130.

Vol I
Chapter II, **Nanotechnologies & NanoTribology**
Book: ECOTRIB 2007.
EDITORS: Bojan Podgornik, *Faculty of Mechanical Engineering, University of Ljubljana*, Prof. Joze Vizintin, *Faculty of Mechanical Engineering, University of Ljubljana*, Prof. Kenneth Holmberg, *VTT, Finland*, Prof. Enrico Ciulli, *University of Piza, Italy*, Prof. Friedrich Franek, *AC2T, Austria*
PUBLISHER: *Slovensko društvo za tribologijo (Slovenian Society for Tribology)*
ISBN: 978-961-90254.

15

Chapter in the book:
Electrochemistry in light water reactors: Reference electrodes, measurement, corrosion and tribocorrosion issues (EFC 49).
ISBN 1 84569 240 3
ISBN-13: 978 1 84569 240 7
April 2007
240 pages 234 x 156mm hardback.



Editura Woodhead Publishing Limited, Abington Hall, Abington, Cambridge, CB1 6AH, England;
PART 3 ELECTROCHEMISTRY AND TRIBOCORROSION ISSUES
Tribocorrosion of stellite 6 alloy: mechanism of electrochemical reactions
*F Wenger and P Ponthiaux, Ecole Centrale Paris, France, **L Benea**, Dunarea de Jos University of Galati, Romania, J Peybernès, Commissariat à l'Energie Atomique (CEA) and A Ambard, Electricité de France (EDF), France*
- Introduction
- Experimental conditions
- Wear laws
- Electrochemical behaviour of stellite 6
- Conclusions
- References

Editors: D. Feron, J. P. Celis.
ISBN 1 84569 240 3; [ISBN-13: 978 1 84569 240 7], April 2007. 256 pages.

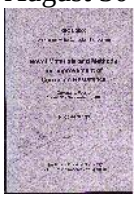
14

Lidia Benea şi Alina-Crina Ciubotariu;
Chimie Generală – Principii şi Aplicaţii.

Editura Academica Galati, 2006. 200 pagini.

	ISBN (10): 973-8937-01-9; (13): 978-973-8937-01-7.
13	**Lidia Benea**. **Tehnologie Chimică Generală**.  Editura Cartea Universitară, Bucureşti, 2005. 350 pagini, **ISBN: 973-731-106-X**.
12	**Lidia Benea**, Viorel Iordache, François Wenger, Pierre Ponthiaux. **Tribocorrosion study of nanostructured SiC-Ni composite coatings.** **p. 179-187.** **Chapter TRIBOCHEMISTRY, Book:**  **2005. Editors:** K Homberg, et all. Publindustria, Portugal**.** COST 532 Conference "Integrated Engineering Surface Technology for Engine Applications" organized jointly by US NIST (USA –National Science Foundation) and COST-ESF (European Science Foundation). **ISBN 972-8953-01-1.**
11	**L. Benea**, P. L. Bonora, A. Borello, S. Martelli, F. Wenger, P. Ponthiaux, and J. Galland.**;** **Wear Corrosion Study of Nanostructured Composite Coatings Obtained by Electroplating.** In volumul **Corrosion and Corrosion Protection**. p. 851-863.  Edited by J. D. Sinclair, E. Kalman, M. W. Kendig, W. Plieth, W. H. Smyrl, PV 2001-22, San Francisco**,** USA, *Publicaţie ECS – The Electrochemical Society –USA,* **2001** ISBN: 1-56677-355-5.
10	**L. Benea**, O. Dossenbach, F. Wenger, P. Ponthiaux and J. Galland; ***Composite Coatings with Zirconium Oxide as Dispersed Phase and their Anticorrosion Properties***. **p. 214-223.**  In cartea: **ELECTROCHEMICAL APPROACH TO SELECTED CORROSION AND CORROSION CONTROL STUDIES**, European Federation of

	Corrosion Publications, Number 28. Edited by: P.L. Bonora and F. Deflorian; Ed. IOM Communications **2000, p. 214-223,** **ISBN 1-86125-110-6; ISSN: 1354-5116.** **Electrochemical Approach to Selected Corrosion and Corrosion Control Studies** Published for the European Federation of Corrosion European Federation of Corrosion Series, Volume 28 **ISBN**: 978 1 861251 10 7. June 2000 384 pages 247 x 174 x 11mm.
9	FRANÇOIS WENGER, **LIDIA BENEA**, AND JACQUES GALLAND. **Corrosion of Steel in Reinforced Concrete Structure**. Annual Progress Report, Proceeding of the 2001 Workshop COST 521, Working Group B2, Tampere Finland, 17 – 20 June, **2001**, pp. 111-115.  **Editor: Jussi Mattila.** **Structural Engineering, Tampere University of Technology.** **ISBN: 952-15-0634-2**
8	**LIDIA BENEA**, GETA CARAC, FRANÇOIS WENGER, JACQUES GALLAND **Comparative corrosion studies of Zn-Fe alloy and Zn coating on steel for reinforcing structures.** p. 45-51. In volumul: **COST 521 CORROSION OF STEEL IN REINFORCED STRUCTURES**.  RW Consult, IST Luxembourg University of Applied Sciences. published at Final Workshop 18-19 February **2002**, Luxembourg, Final Reports of Single Projects 1997-2002, Working Group A2.
7	**L. Benea,** G. Carac, P. L. Bonora, F. Wenger, P. Ponthiaux and J Galland. **Nanostructured Composite Coatings and Marine Biocorrosion.** pp. 193-198. In cartea: **Study and Control of corrosion in the Perspective of Sustainable Development of Urban Distribution Grids.**  Constanţa – Romania, **iunie 2002.** **ISBN: 973-95041-3-2.**

6	FRANÇOIS WENGER, **LIDIA BENEA** AND JACQUES GALLAND **Use of electrochemical methods for the monitoring of steel corrosion in concret.** **p. 149-157.** In volumul: **COST 521 CORROSION OF STEEL IN REINFORCED STRUCTURES**.  RW Consult, IST Luxembourg University of Applied Sciences. Published at Final Workshop 18-19 February **2002**, Luxembourg, Final Reports of Single Projects 1997-2002, Working Group A2.
5	**L. BENEA**, P. L. BONORA, A. BORELLO, S. MARTELLI, G. MAURIN **Wear-corrosion behaviour of nano-structured SiC – nickel composite coatings.** Proceedings of 3rd Kurt Schwabe Corrosion Symposium, (KSCS 2000), Zakopane, Poland, August 30 – September 2, **2000,** p. 291-298.  Published by Institute of Physical Chemistry of the Polish Academy of Sciences. KSCS 2000.
4	**Lidia BENEA.** **Comparative Corrosion Study of Metal Coatings and Metal Matrix Composite Coatings.** pp. 990-1000. In cartea **PASSIVITY AND ITS BREAKDOWN**, Publicatie a *ECS – The Electrochemical Society.*  Editors: P.M. Natishan, H.S. Isaacs, M. Janik-Czachor, V.A. Macagno, P. Marcus, and M. Seo, PV 97-26, Paris, France – September **1997.** **ISBN 1-56677-179-X**.
3	**Lidia BENEA** şi Dumitru DIMA**;** **CHIMIE GENERALA – TEORIE SI APLICATII PRACTICE.**  Editura: ARS DOCENDI, Bucureşti, 1999.**;** 200 pages. ISBN 9736988406765.
2	**Lidia BENEA. Codepunerea particulelor ceramice de ZrO2 şi Sic în matrice de nichel**

	(Codeposition of Ceramic Particles of ZrO2 and SiC in Nickel Matrix). pp. 183- 201. In cartea: Tehnologii , Calitate, Maşini, Materiale – **TEHNOLOLOGII NOVATIVE PREZENT ŞI PERSPECTIVE.**  **Editura Tehnică. Noiembrie 1997. 516 pagini.** **ISBN: 973-31-1139-2.** **ISBN: 973-31-1141-4**
1	**Lidia BENEA. Electrodepuneri compozite – Realizări, perspective (Composite Electrodeposition – Achevements and Perspectives.** **pp.107 -125.** In cartea: Tehnologii , Calitate, Maşini, Materiale – **ECOLOGIE – ACOPERIRI METALICE – COROZINE.**  **Editura Tehnică. Septembrie 1997. 360 pagini.** **ISBN: 973-31-1113-9**

September 2019 Prof. univ. dr. (Ph.D.) Lidia BENEA

--//--