



Curriculum vitae Europass



Informații personale

Nume / Prenume

Brainmap: U-1700-038D-1849, ORCID: 0000-0002-9065-3587

IONELIA VOICULESCU

Adresă(e)

București, România

Telefon(oane)

Mobil:

E-mail

ionelia.voiculescu@upb.ro

Naționalitate

Română

Sex

Feminin

Locul de muncă vizat / Domeniul ocupațional

**Universitatea Politehnica din București
Invatamant superior - Universitar**

Experiența profesională

H index 14, h-index 20, i10-index 30

Perioada

2005 - prezent

Funcția sau postul ocupat

Profesor universitar, conducător de doctorat în domeniul **Inginerie Industrială** conferit prin Ordinul Ministrului Educației și Cercetării nr. 5454/04.12.2019

Activități și responsabilități principale

Activități didactice, Membru în Consiliul profesoral al facultății IMST 2008-2012), Membru în Senatul UPB (2014-2015), Membru în comisia de Etică și Integritate Academică a UPB (2015-2018), Membru în Consiliul de conducere al Departamentului ICTI (2004-2008) și (2014-2019), responsabil cu activități de cercetare în Departamentul TMS (1995-2012), Director laborator pentru încercări metalografice - LAMET, www.lamet.ro, acreditat RENAR – Certificat nr. LI 754 din 12/02/2009, Președinte Sucursală ASR București (2012-2018)

Numele și adresa angajatorului

Universitatea Națională de Știință și Tehnologie Politehnica București, 313, Splaiul Independentei, sector 6, 060042, București, România

Tipul activității sau sectorul de activitate

UNI

Perioada

1999 - 2005

Funcția sau postul ocupat

Conferențiar universitar

Activități și responsabilități principale

Activități didactice, Responsabil activități de cercetare, membru in colectivul de conducere al Catedrei TMS

Numele și adresa angajatorului

Universitatea Politehnica din București, 313, Splaiul Independentei, sector 6, 060042, București, România

Tipul activității sau sectorul de activitate

UNI

Perioada

1990 - 1999

Funcția sau postul ocupat

Sef lucrări

Activități și responsabilități principale

Activități didactice

Numele și adresa angajatorului

Universitatea Politehnica din București, 313, Splaiul Independentei, sector 6, 060042, București, România

Tipul activității sau sectorul de activitate

UNI

Perioada

1987- 1990

Funcția sau postul ocupat

Asistent universitar

Activități și responsabilități principale

Activități didactice de laborator și asistență la cursuri de specialitate

Ionelia Voiculescu

Numele și adresa angajatorului Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România
 Tipul activității sau sectorul de activitate UNI
 Perioada **1985 - 1987**
 Funcția sau postul ocupat **Inginer cercetare**
 Activități și responsabilități principale Cercetare științifică, participare la ședințe tehnice de evaluare
 Numele și adresa angajatorului Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România
 Perioada **1983 - 1985**
 Funcția sau postul ocupat **Inginer stagiar**
 Activități și responsabilități principale Proiectare autoutilare
 Numele și adresa angajatorului SC ELECTROARGES SA Curtea de Argeș, Jud. Argeș

Educație și formare

24.09.2019 **HABILITAT** - conducător de doctorat în domeniul **Inginerie Industrială** conferit prin Ordinul Ministrului Educației și Cercetării nr. 5454/04.12.2019 (2 doctori acreditați – în prezent)
 Sustinere examen abilitare
 Calificarea / diploma obținută **DOCTOR INGINER**, Diploma cu Seria P, Nr. 0001119, aprobată prin Ordinul Ministrului Învățământului /11.03.1998
Septembrie 1992 – Martie 1998
 Disciplinele principale studiate / Tehnologia sudării prin topire, Știința materialelor, Bazele proceselor de sudare / competențe profesionale dobândite Coordonarea activităților de cercetare pe bază de program experimental
 Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Națională de Știință și Tehnologie Politehnică București, 313, Splaiul Independentei, sector 6, 060042, București, România
 Nivelul în clasificarea națională sau UNI
 internațională
 Perioada **Septembrie 1978 - iunie 1983**
 Calificarea / diploma obținută **INGINER**, DIPLOMA nr. 5412 din 23.12.1983, profil Mecanic, specializarea Utilajul și tehnologia sudării, Șef de promoție pe țară
 Disciplinele principale studiate / Tehnologii de sudare, Bazele proceselor de sudare, Control defectoscopic nedistructiv, Studiul competențe profesionale dobândite materialelor, Echipamente pentru sudare, Proiectarea mașinilor, utilajelor și construcțiilor sudate, Tehnologia materialelor, Mecanizarea și automatizarea proceselor de sudare, Pedagogie / Proiectare tehnologii de sudare și control defectoscopic, proiectare structuri sudate, conducerea activităților industriale, aptitudini pedagogice
 Numele și tipul instituției de învățământ / furnizorului de formare Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România
 Nivelul în clasificarea națională sau UNI
 internațională

Aptitudini și competențe personale

Limba maternă
 Limbi străine cunoscute
 Autoevaluare
 Nivel european (*)

Română

Engleza, Franceza

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
En	B2	En	B2	En	B1	En	B1	En	B2
Fr	B2	Fr	C1	Fr	C1	Fr	C1	Fr	C1

(*) [Nivelul Cadrelor Europene Comune de Referință Pentru Limbi Străine](#)

Illoiu

Competențe și abilități sociale

Competențe și aptitudini organizatorice

Competențe și aptitudini tehnice

Publicare de cursuri și cărți de specialitate

Comunicativitate, spirit de echipă, onestitate – dobândite ca expert coordonator în Programul Leonardo da Vinci și partener sau coordonator la numeroase proiecte internaționale de formare profesională (10) sau de cercetare științifică (54 contracte de cercetare)

Coordonarea activităților de cercetare și didactice – dobândite prin derularea în parteneriat național a numeroase proiecte de cercetare și proiecte internaționale de formare profesională

Coordonarea activităților de selecție a proiectelor de formare profesională la nivel național: Expert european Leonardo da Vinci (1999-2001); Secretar al Comisiei naționale de evaluare a proiectelor LdV (2001-2002) numită prin **ORD MEC Nr. 3022/2001**.

Evaluarea proiectelor de cercetare științifică: Expert evaluator proiecte de cercetare (RELANSIN, CNCSIS, MATNANTECH), Specializarea Știința Materialelor, Sudare și control, **Certificat Nr. 78/186/04.03.2005** – AMCSIT Politehnica, modul Monitorizarea proiectelor

Coordonarea activităților profesionale în sudare – Președinte al Sucursalei ASR București (2012 – 2018)

Managementul proceselor de sudare și control, proiectare tehnologii de sudare, tratament termic, lipire, metalizare, sablare, managementul activităților de cercetare științifică – competente dobândite ca urmare a experimentării, documentării și derulării activităților de cercetare pe baza de contract.

Specializare profesională:

- Bursă TEMPUS, 1997, Saclay, Franța – *Metalurgia Materialelor pentru Centrale Nucleare* (TEMPUS JEP – 9863/96);
- Director proiect și Bursa Leonardo da Vinci, 2004, Lisabona, Portugalia - *Training and certification of assessors in welding and nondestructive testing field*, Nr. RO/F/91111/2003 și **Certificat nr. 739/05.05.2002**, AMCSIT Politehnica, Managementul Proiectelor C.D.I.
- Bursă TEMPUS, 1998, Torino, Italia – *Asigurarea Calității în Controlul Nedistructiv* (TEMPUS S JEP – 11351/96)
- Bursă Leonardo da Vinci, 1999, Leicester, UK – *Implementarea spiritului calității în procesul educațional* - Leonardo da Vinci – RO/98/PL 83521/I.1.2.c - Proiect pilot

Comunicare și cooperare în domeniul formării profesionale – Schimb de experiență în cadrul bursei Socrates, Lisabona, Universidade Nova, 2006 și Training for improvement the managerial skills of university teachers Leonardo da Vinci – RO/2001/PL 87069/Ex - Proiect mobilități

Evaluarea nivelului de pregătire doctorală - Participarea ca membru în comisii de doctorat (27) și în comisii de evaluare periodică a doctoranzilor în cadrul SD FIIR.

Managementul activităților de încercare (metalografice, microduritate) - Acreditarea Laboratorului pentru Încercări Metalografice „LAMET”, Director de laborator, obținerea Certificatului de acreditare Nr. LI 754/12.02.2009, absolvirea cursului „Prezentarea cerințelor ISO/CEI 17025:2005 – referențial pentru acreditarea laboratoarelor de încercări/etalonări”, cu **Certificatul Nr. 16884/C12/14.04.2006**: RENAR București,

Cunoașterea și Aplicarea Principiilor Sistemului de Asigurare a Calității în activitatea didactică și cercetare - coordonare proiecte internaționale (5) pentru formare profesională în cadrul Programului LdV și participare la alte proiecte internaționale (5) pentru îmbunătățirea competențelor manageriale ale cadrelor universitare, pentru promovarea spiritului de calitate în procesul educațional de formare profesională inițială și continuă, în cadrul programelor Socrates și LdV. Evaluator al proiectelor naționale de cercetare, în cadrul diferitelor programe, cum ar fi: CNCSIS, ANCS, AMCSIT, PNCD I, PNCD II, MATNANTECH.

6 capitole de carte publicate în edituri internaționale (5 la IntechOpen și 1 la Wiley-VCH), 1 carte în Editura Academiei Române, 8 cărți tehnice de specialitate în edituri cu ISBN, 1 carte didactică (note de curs) destinată pregătirii studenților și 6 îndrumare de laborator; 281 lucrări științifice publicate, dintre care: 86 articole cotate ISI Clarivate (68 în reviste de specialitate de circulație internațională și 19 în proceedings-uri), 51 lucrări în reviste indexate în baze de date internaționale specifice domeniului, 14 lucrări publicate în reviste de specialitate naționale; 80 lucrări publicate în volumele unor congrese sau conferințe internaționale; 52 lucrări publicate în volumele unor manifestări științifice din țară, 21 brevete de invenție publicate OSIM și 1 brevet internațional ES 1185609-U (Spania).

Recunoașterea competențelor la nivel internațional

Recenzent național

1. THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE XII, WELDING EQUIPMENT AND TECHNOLOGY, ISSN 1221 – 4639,
2. U.P.B. Sci. Bull., Series D, 2010-prezent, ISSN 1454-2358;
3. ICAMaT – International Conference, Bucharest, Romania

Organizator Conferința „Sudura” 2013, București, ca președinte al Filialei ASR București

Recenzent internațional

1. WILEY-VCH GmbH&Co. KGaA
2. BraMat – Int. Conf. Brasov
3. JMAD (Journal of Materials and Design)-D –Int. Review
4. Materialschair (materials Characterization)– Int. Review
5. PROTEC-17(Journal of Materials Processing Technology) -D- Elsevier
6. MSE (Materials Science and Engineering A)-D-17, Int Review
7. JAST (Journal of Adhesion Science and Technology)-2018-0001
8. Defense Technology - 2018
9. International Journal of Materials Science and Applications(IJMSA)-2018;
10. Metals – 2020-prezent
11. Materials – 2020- prezent
12. Coatings – 2020-prezent

Member of Scientific Board:

1. Annals of DAAAM and Proceedings
2. THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, Fascicle XII, Welding Equipment and Technology, ISSN 1221 – 4639,
3. BraMat – International Conference, Brasov Romania
4. The 4th IiW South-East European Welding Congress

Experiență de management, analiză și evaluare în cercetare și/sau învățământ

Expert european Leonardo da Vinci și responsabil proiecte pilot la Agenția Națională LdV (1999-2001); Secretar al Comisiei Naționale de Evaluare a Proiectelor LdV (2001-2002), numită prin **ORD MEC Nr. 3022/2001.**

Director laborator acreditat RENAR – Laborator pentru încercări metalografice – LAMET (2006 – 2024)

Membru în Senatul UPB (2014-2015)

Membru în Consiliul Facultății IMST (2004-2008)

Membru în Consiliul de conducere al Dep. ICTI (2004-2008) și (2014-2019-prezent)

Membru în Comisia de Etică și Integritate a UPB (2015-2018)

Evaluator AMCSIT Politehnica/RELANSIN, MATNANTECH, CNCSIS

Alte competențe și aptitudini

Membru în Asociații profesionale:

- ASR – Asociația de Sudură din România - Președinte Filiala București
- SF2M – Societate Franceză de Materiale și Metallurgie, membru 1993;
- A S M International - - Belgia, membru 1994;
- A I M - Associazione Italiana di Metallurgia, Italia, membru 1995;
- AGIR – Asociația Generală a Inginerilor din România, membru 1990.

Menționare în Monografii

- Monografia Bibliografică "Who's Who in The World" în 1999
- Selecționată pentru "20th Century Award for Achievement" - 2000.
- Nominalizată - INTERNATIONAL WOMAN OF THE YEAR, 2000/2001
- Bibliografie Publicată în Monografia Bibliografică "Who's Who, Enciclopedia Personalităților din România" în 2008.

Premii, diplome și medalii

2 premii internaționale, 65 diplome naționale (printre care 1 diplomă acordată de Academia de Științe Tehnice din România - ASTR), 31 medalii din care 19 de aur, ISI Clarivate Hirsh index = 14, i10 = 29, Scopus h=18

Permis de conducere

Categoria B

Prof.dr.Ing. Ionelia VOICULESCU, 23.04.2024



ANEXE | Anexa 1. Lista proiectelor de cercetare,

A. CONTRACTE DE CERCETARE OBTINUTE ÎN COMPETIȚIE NAȚIONALĂ

Programul/Proiectul	Funcția	Perioada: de la... până la...	Valoare, RON
MCT Nr.836/1996, Tema A2 – Cercetări privind sudarea materialelor compozite cu matrice metalică și a materialelor amorfe	Director proiect	1995 – 1997	
MCT Nr.711/1996, Act adițional nr. 843/1998/IV - Modificarea proprietăților și structurii aliajelor prin prelucrare superficială cu flux de electroni	Director proiect	1995 – 1998	
MCT Nr.836/1996, Tema B19 – Cercetări privind îmbinarea materialelor ceramice	Director proiect	1996 – 1999	
MCT Nr.711/96, Act adițional nr. 2/96, - Cercetări privind dehidrogenarea termică și în câmp electric a oțelurilor	Director proiect	1996-1997	
ERBCIPACT 940192 – contract COPERNICUS-94, Amelioration des techniques de fabrication et developpement des procedes de recyclage de materiaux metallique poliphase et composites pour applications dans les industries des transports (cooperare România-Belgia-Franța-Slovacia),Coordonator: Prof.F.Delannay (Universite Catholique de Louvain, Belgique)	Colaborator	1994	
Programul RELANSIN, 2000, Contract Nr. 906/2000 – Tema “Tehnologie de sudare cu arc electric (SMAW și GMAW) a șinelor cap la cap (CF 49B – CF 49B, CF 49B – RI60, RI60-RI60)”.	Director proiect	2000-2001	800000
Programul Relansin, 2000, Contract Nr. 907/2000 – Tema “Tehnologie și dispozitiv pentru recondiționarea șinelor în curbă”	Director proiect	2000-2001	980000
Programul Relansin, nr. 2023/15.09.2004, Realizarea unei familii de vergele învelite, ecologice, pentru brazarea cu aliaje de argint - VERAG	Director proiect	2004 – 2005	1.450.000
Programul Relansin, Contract Nr. 1479/2003, Linie tehnologică pentru obținerea plaselor metalice,	Responsabil proiect	2003 – 2004	1.500.000
MECT, Programul RELANSIN, Contract 1772/2003,, Tehnologie de sudare cu arc electric sub apa in mediu de gaze protectoare” - POSA (UPB – CAMIS)	Coordonator si Responsabil stiintific	2003 – 2005	450.000
Program INFRAS Nr. 238/2004 Laborator pentru încercări construcții sudate – SUDOTEST	Director Laborator	2004 – 2005	200.000
Program CEEEX nr. 098/2005, Cercetari fundamentale si aplicative privind realizarea bronzurilor cu 12-15% staniu destinate obtinerii unor straturi antifricțiune – BRONZINV	Responsabil stiintific	2005- 2007	180.000
Program CEEEX, contract nr. 099/2005, Cercetări inovative privind realizarea unor noi materiale pentru sudare si procese de productie – MATAVSUD	Responsabil stiintific	2005 – 2007	180.000
Program CEEEX, contract nr. 116/2005, Tehnologii inovative de crestere a disponibilitatii utilajelor pentru reabilitarea drumurilor (terasiere) prin utilizarea elementelor modulate, incarcate cu straturi dure prin sudare – DURASTRADE	Director proiect	2005 – 2007	120.000
Program CEEEX, contract nr. 114/2005 – Cercetari inovative privind valorificarea complexa a materialelor si rezidurilor organice pentru obtinerea resurselor alternative regenerabile	Responsabil stiintific	2005-2007	225.000

de energie in instalatii adaptate pentru mediul rural - RARENERG			
Program INVENT 2005 – Material și tehnologie pentru fabricarea sculelor încărcate prin sudare intens solicitate la temperaturi ridicate - INCASUD	Responsabil stiintific	2006 – 2007	41.250
Program CEEX contract nr. 77/2005 – Cercetări fundamentale și aplicative privind creșterea eficienței energetice și reducerea poluării prin realizarea sistemelor de ardere autocarburante la cazanele de mare putere – AUTOCARB	Responsabil stiintific	2005-2007	277.000
Program CEEX, contract nr. 78/2005 – Cercetari inovative privind realizarea și implementarea în agregatele termice industriale a unor noi atenuatoare de zgomot in vederea reducerii poluării sonore generate de esaparea in atmosferă de gaze sau abur – POLSON	Responsabil stiintific	2005-2007	236.000
Program RELANSIN, contract nr. 2101 / 2004, Realizarea și implementarea cuptoarelor de incalzire pentru produse mici, de serie mare, supuse operațiilor de matritare – CUPTINC	Colaborator	2004-2006	
Program CEEX, contract Nr. 158 /2006 – Cercetari privind elaborarea unei tehnologii romanesti de co-combustie: biomasa – carbune – BIOCARB	Colaborator	2006 – 2008	
Program CEEX, contract Nr. 221 /2006 – Materiale novative cu structură amorfă pentru brazare destinate aplicațiilor industriale speciale – NOVABRAZ	Colaborator	2006 – 2008	320.000
Program CEEX, contract Nr. 223 /2006 – Materiale noi biocompatibile pentru implantologie ortopedica – BIOCOB	Colaborator	2006 – 2008	
Program CEEX, contract Nr. 256 /2006 – Cercetări fundamentale și aplicative privind prelucrarea cu jet de apă și particule abrazive orientate electromagnetice – ELMAJET	Colaborator	2006 – 2008	350.000
Program CEEX, contract Nr. 299 /2006 – Cercetări fundamentale și aplicative privind transferul intensiv al energiei termice in cuptoare destinate obținerii produselor ceramice de inalta refractaritate – CUPCERAM	Colaborator	2006 – 2008	
Program CEEX, contract Nr. 298 /2006 – Materiale și tehnologii inovative pentru creșterea durabilității elementelor active din componența echipamentelor tehnice utilizate în agricultură – DURAG	Director proiect	2006 – 2008	1.420.000
Program CEEX, contract Nr. 322 /2006 – Cercetări fundamentale și aplicative privind realizarea bronzurilor CuNiAl destinate recondiționării elicelor navale – ELNAV	Colaborator	2006 – 2008	300.000
Program CEEX Nr. 634 /2006 – Laborator pentru incercari metalografice – LAMET	Director proiect	2006 – 2008	780.000
Program CEEX, contract Nr. X2C22 /2006 – Cercetări fundamentale și aplicative privind obținerea produselor tubulare din oțeluri de calitate superioară în vederea reducerii costurilor și ecologizării producției- TUBOTEL	Colaborator	2006 – 2008	
Program PNCDI, contract Nr. 21016 /2007 – Soluții novative privind depoluarea termica, separarea și captarea CO ₂ din gazele arse rezultate din procesele termice industriale – DEPOLTERCHIM	Colaborator	2007 – 2009	250.000
Program PNCDI, contract Nr. 71014 /2007 – Realizarea in sistem modular a snecurilor utilajelor de extruziune din industriile prelucratoare – SENMELC	Colaborator	2007 – 2009	350.000

Iloriana

Program PNCDI, contract Nr. 71039 /2007 – Tehnologii inovative pentru realizarea de elemente modulate destinate fabricării sculelor pentru deformări plastice - ELMOD	Colaborator	2007 – 2009	153.200
Program PNCDI, contract Nr. 71039 /2007 – Tehnologii inovative de obtinere din materiale compozite cu proprietati dirijate a lagarelor de alunecare pentru industria auto – TOMCD	Colaborator	2007 – 2009	300.000
Program PNCDI, contract Nr. 71061 /2007 – Tehnologii si materiale inovative pentru fabricarea pieselor de uzura destinate productiei de automobile – TEMIPUPA	Colaborator	2007 – 2009	300.000
Program PNCDI, contract Nr. 71066 /2007 – Electrozi multistrat pentru sudarea prin rezistenta electrica in puncte si linie – ELSUD	Responsabil stiintific	2007 – 2009	400.000
Program PNCDI, contract Nr. 71118 /2007 – Nanomateriale de adaos microaliate pentru imbinarea materialelor ceramice – NANOCERAD	Responsabil stiintific	2007 – 2010	460.000
Program PNCDI, contract Nr. 71132 /2007 – Sudarea cu laser a capsulelor pentru surse radioactive- LASERCAP	Responsabil stiintific	2007 – 2010	500.000
Program PNCDI-Inovare, contract Nr. 1321 /2007 – Instalatie ecologica pentru prelucrarea deseurilor menajere – ECOMAG	Responsabil stiintific	2007 – 2010	260.000
Program PNCDI-Inovare, contract Nr. 1321 /2007 - Realizarea prin thixotropizare si injectare directa in matrita a pieselor complexe destinate echipamentelor electronice si de comunicatii – THIXINJECT	Colaborator	2007 – 2009	176.000
Program PNCDI-Inovare, contract Nr. 1334 /2007 – Materiale noi si tehnologii inovative pentru cresterea rezistentei la oboseala si coroziune a pieselor de uzura – MICROPU	Colaborator	2007 – 2009	350.000
Program PNCDI-Inovare, contract Nr. 1400 /2007 – Formarea prin pulverizare a electrozilor compoziti, utilizati pentru depuneri dure si sudare in puncte – PULVER	Responsabil stiintific	2007 – 2010	171.500
Program PNCD 2/PARTENERIATE, contract nr. 72-216/2008 Tehnologie de depunere prin sudare hibrida Laser-MIG cu pulberi – LASERDEP	Director proiect	2008 – 2010	319.482,22
PARTENERIATE - Contract nr. 72224/01.10.2008 Implementarea efectului de memorie a formei in sisteme mecatronice inteligente utilizand materiale avansate obtinute prin metalurgia pulberilor - AMFM	Colaborator	2008 - 2011	300.000
Program PNCD II/PARTENERIATE, contract nr. 145/11.06.2008 A.Ad.nr.3/03.2010, Nou material compozit Al-Bazalt utilizat la producerea de piese rezistente la uzura - MATCOMALBAZ	Colaborator	2008 - 2011	67.600
Program PNCD II/PARTENERIATE, contract nr.72203/1.10.2008, Solutii novative de realizare prin autoformare a modelelor pentru turnarea pieselor de serie mica si unicate - AUTOFORMMODEL	Colaborator	2008 - 2011	284.000
Program PARTENERIATE-PCCA, contract nr. 72218/ 2008 , Ciocane ranforsate cu deseuri recuperabile de carburi pentru mori de macinare - MILHAM	Colaborator	2008 - 2011	234.069,95
Program PARTENERIATE - PCCA, contract nr. 170/2012 - High toughnes nanoprecipitate microalloyed steels – ToughNanoMicrAl	Colaborator	2012 - 2014	280.000
Program PARTENERIATE-PCCA, contract nr. 188/2012 - Materiale si tehnologii performante destinate realizarii cutitelor de freza pentru asfalt - MATFREZ	Responsabil stiintific UPB	2012 - 2015	350.000

Iloriana

Program PARTENERIATE-PCCA, contract nr. 209/2012 - Composite structures resistant at dynamic loadings applied with high deformation speeds used in the field of collective protection – HEAMIL	Colaborator	2012-2015	870.000
PROGRAM PN-II-IN-DPST-2012, CONTRACT NR. -1-0066, Componentă pentru excavator ranforsată cu aliaje cu entropie ridicată – HEATEETH	Colaborator	2013-2015	410.000
Program PCCA, contract nr. 243/2014, Materiale metalice avansate pentru noile generații de centrale nucleare, 4R – NUCLEARMAT	Colaborator	2014-2016	455.000
Nou material compozit cu straturi ceramice depuse prin prelucrare cu laser pentru aplicații la temperaturi ridicate și coroziune (LASCERHEA) - Cod proiect: PN-III-P2-2.1-PED-2019-3953, DIRECTOR Proiect, Valoare totala proiect 617500 lei, de la buget 590.000 lei	Director proiect	2020-2022	260000
TEHNOLOGII MODERNE DE ASAMBLARE NEDEMONTABILA A COMPONENTELOR SISTEMELOR DE PROTECTIE INDIVIDUALA SAU COLECTIVA, proiect complex nr. 20/PCCDI/2018	Responsabil proiect UPB	2019-2022	406351
Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale, proiect MedicalMetMat – PN-III-P1-1.2-PCCDI-2017-0875/20PCCDI/2018	Colaborator	2019-2022	433 376
B. PROIECTE INTERNAȚIONALE DE FORMARE PROFESIONALĂ			
Program Leonardo Da Vinci Nr.RO/98/PL 83521/I.I.2.c, Partener De Montfort University – UK Trainers formation for promotion of quality spirit in educational process,	Participant	1998 – 1999	
Program Leonardo Da Vinci RO/98/83554/PI/I.I.I.b./CONT., Parteneri: De Montfort University – UK, Universite de Rennes – F, Universidade do Porto – PT Promotion of quality spirit in educational process of initial and continuing vocational training,	Participant	1999 – 2000	
Program TEMPUS JEP 9863 – 1997, Partener CEA Saclay, Franta Metallurgie des materiaux nucleaire	Participant	1997	
Program TEMPUS S-JEP 11351-96, ITALIA Quality Assurance in NDT (Non-Destructive Testing)	Participant	1998	
Training for improvement of managerial skills of university teachers, Proiect Leonardo da Vinci – RO/2001/PL 87069/Ex – mobilități, Partener: Universidade do Aveiro, PT	Participant	2002	
Program Leonardo da Vinci – mobilitati, Nr. RO/F/91111/2003, Parteneri: EWF – European Federation for Welding, Joining and Cutting, Porto Salvo, PT, Universitatea Politehnica din Bucuresti, Universitatea “Transilvania” Brasov, Training and certification of assessors in welding and nondestructive testing field –	Coordonator	2004	18.000 Euro
Program Leonardo da Vinci Nr. RO/00/B/F/PP/141037, Parteneri : IUT Rennes – F, University of Patras – EL, Universite de Liege – B, Universitatea “Dunarea de Jos”, Galati – RO, MAZAK EUROPE, Goppingen – D, SANDVIK COROMANT, Stocholm – SW, HESPER SA Bucuresti – RO, Centre Professionnel pour Formation Continue en Productique Moderne –	Participant	2001-2003	
Program Pilot Leonardo da Vinci Nr.	Participant	2004	

Albion

RO/2003/PL91110/EX, Partener Centre de Support Telematique, Marche-en-Famenne, Belgique, Certification des competences dans le management de l'environnement			
Program Leonardo da Vinci Nr. RO/2004/93006/EX, Partener: Universidade NOVA Lisboa, PT, Training for biomaterials integration in computer-aided medicine paradigm (TICAMP)	Coordonator	2005-2006	20.985 Euro
Program SOCRATES – RO Bucures 11 Higher Education Project, Universidade Nova de Lisboa	Participant	28.04.2006 – 13.05.2006	

ANEXA 2

LISTA DE LUCRĂRI

IONELIA VOICULESCU – Doctor inginer din 1998, Profesor din 2005

1^o Teza de doctorat:

T1. **TONOIU (VOICULESCU)** Ionelia - Contribuții privind difuzia hidrogenului în oțeluri pentru structuri sudate, Universitatea Politehnica din București, Seria P, Nr. 0001119/1998.

2^o Cărți publicate prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale

CĂRȚI PUBLICATE LA EDITURI CU ISBN (Ca)

- Ca1.** G. Iacobescu, Gh. Solomon, **I.Tonoiu**, *Procedee și tehnologii speciale de sudare*, Editura BREN, ISBN 973-9427-15-4, București, 1999, 176 pag.
- Ca2.** Gh. Zgură, I. Severin, **I.Tonoiu**, *Materiale compozite cu matrice metalică, tehnologii de prelucrare*, Editura Academiei Române, 2000, București, ISBN: 973-27-0729-1, 335 pag.
- Ca3.** V. Geanta, D. Bunea, ..., **I.Voiculescu**, *Învățământ superior european și management de cercetare, European Higher Education and Research Management*, Editura PRINTECH, 2003, București, ISBN 973-652-713-1, 292 pag.
- Ca 4.** **Ionelia Voiculescu**, *Sudarea aluminiului și a aliajelor sale*, Editura PRINTECH, 2003, București, ISBN 973-652-933-9, 249 pagini.
- Ca 5.** C. Predescu, D. Bunea, ... **I.Voiculescu** și col., *Legislație și management de mediu în Uniunea Europeană – La legislation et le Management de l'Environnement dans l'Union Europeenne* – Editura Printech, București, 2004, ISBN 973-718-045-3, 212 pagini.
- Ca 6.** **Ionelia Voiculescu**, *Hidrogenul în oțeluri pentru construcții sudate*, Editura PRINTECH, 2005, București, ISBN 973-718-181-6, 153 pagini.
- Ca 7.** **Ionelia Voiculescu**, Corneliu Rontescu, Ileana Liliانا Dondea, *Metalografia Îmbinărilor Sudate*, Editura SUDURA, Timisoara, 2010, ISBN 978-973-8359-58-1, 260 pag.
- Ca 8.** **Ionelia Voiculescu**, Victor Geanta, Ion Mihai Vasile, *Aliaje feroase pentru structuri sudate*, Editura BREN, ISBN 973-9427-15-4, București, 2016, 446 pag.
- Ca 9.** V. Geanta, **I. Voiculescu**, *Tratat de obținere a materialelor metalice biocompatibile*, Ed, Printech, București, 2018, 628pag.

CAPITOLE DE CARTE ÎN EDITURI INTERNAȚIONALE

- Ca10.** **Voiculescu, I.**, Geanta, V., Stefanoiu, R., Binchiciu, H., Vida-Simiti, I., VasIU, R. Study on Hardfaced Wear Resistant Bronze Alloy. International Symposium on Friction, Wear and Wear Protection, Aachen, Germania, April 9-11, 2008, Vol. - Friction, Wear and Wear Protection, Edited by Alfons Fisher and Kirsten Bobzin, WILEY-VCH, Verlag GmbH, Germany, 2008, ISBN 978-3-527-32366-1, p. 610-617. Recenzii/Indexări: SCOPUS
- Ca11.** **Voiculescu I.**, Brazing Behaviour of Ag-Cu Filler Materials, *Recent Progress in Soldering Materials, InTech- open science*, Website: <http://www.intechopen.com>, Croația, (2017), ISBN 978-953-51-3643-9, pp. 39-61
- Ca12.** Geanta V., **Voiculescu I.**, Characterization and Testing of High Entropy Alloys from AlCrFeCoNi System for Military Applications, *Engineering Steels and High Entropy-Alloys*, Ed. IntechOpen 2019, DOI: <http://dx.doi.org/10.5772/intechopen.88622>, ISBN 978-1-78985-948-5, Recenzii/Indexări: SCOPUS, p.139- 156.



Ca13. Geanta V., **Voiculescu I.**, Vizureanu P., Sandu A.V., High entropy alloys for medical applications, IntechOpen 2019, Engineering Steels and High Entropy-Alloys, [ISBN 978-1-78985-948-5](https://doi.org/10.5772/intechopen.89318), DOI: <http://dx.doi.org/10.5772/intechopen.89318>.

Recenzii/Indexări: SCOPUS, p. 181-195.

Ca14. Geanta V., **Voiculescu I***, Characterization and Testing of High Entropy Alloys from AlCrFeCoNi System for Military Applications, Engineering Steels and High Entropy-Alloys, Ed. IntechOpen 2019, DOI: <http://dx.doi.org/10.5772/intechopen.88622>, ISBN 978-1-78985-948-5.

Ca 15. R. STEFANOIU, I. VOICULESCU, V. GEANTA, Continuous Casting: Proceedings of the International Conference on Continuous Casting of Non-Ferrous Metals, Ms Academic Research, Editura: Wiley-VCH Verlag GmbH & Co. KGaA, DOI: 10.1002/9783527607969.ch5, Dată publicare: 2006-11-01, Pagini: 42-47.

Ca 16. Victor GEANTĂ, Ionelia VOICULESCU*, Mihai Cosmin COTRUT, Maria Diana VRÂNCEANU, Ion Mihai VASILE, Julia Claudia MIRZA ROSCA, Effect of Al on Corrosion Behavior in 3.5%NaCl Solution of Al_xCoCrFeNi High Entropy Alloys, International Journal of Engineering Research in Africa (Volume 53), p. 20-30, <https://doi.org/10.4028/www.scientific.net/JERA.53.20>.

CĂRȚI PUBLICATE LA EDITURI LOCALE (Cb)

Cb1. V. Miclosi, **I. Tonoiu**, Gh. Solomon, Materiale și tratamente termice pentru structuri sudate, (Note de curs), Editura U.P.B., 1994, 100 pag.

Cb2. Gh. Solomon, D.T. Cicic, C. Rontescu, A. Mihai, **I. VOICULESCU**, G. Iacobescu, *Ghid pentru elaborarea proiectului de licență pentru uzul absolverilor Specializarea Ingineria sudării*, Ed. Politehnica Press, 2011, 128 pag.

Cb3. Iacobescu G., Rontescu C., Cicic D.T., Mihai A., Solomon Gh, I. **VOICULESCU I.** *Îndrumar pentru elaborarea proiectului de diplomă*, Editura Politehnica Press, ISBN 976-606-515-455-1, 2013, 134 pag.

Cb4. **Voiculescu I.**, V. Geanta, I.M. Vasile, *Aliaje feroase pentru structuri sudate*, Ed. BREN, 2016, 433 pag.

Cb5. **Voiculescu I.**, I.M. Vasile, E.M. Stanciu, A. Pascu, *Știința și Ingineria Materialelor*, Îndrumar de laborator, Editura Lux Libris, Brasov, 2015, 210 pag.

Cb6. **Voiculescu I.**, Vasile I. M., Dimitriu L.C., *Tehnologia Materialelor*, Îndrumar de laborator. Ed. Politehnica Press, București 2022, ISBN 978-606-515-997-6, cod CNCIS 19, 278 pag.

ÎNDRUMARE PUBLICATE (I)

I.4. Ionelia Voiculescu, Ion Mihai Vasile, Elena-Manuela Stanciu, Alexandru Pascu, Știința și ingineria materialelor, Îndrumar de laborator, Editura LUX LIBRIS, Brasov, 2015, ISBN 978-973-131-316-0, 210 pag.

I.3. M. Voicu, C. Borda, Al. Dumitrache Rujinski, M. Dumitraș, I. Grecu, M. Marinescu, A. Mincă, D. Nițoi, A. Strănutu, I. Tonoiu, *Tehnologia materialelor*, Îndrumar de laborator, Editura BREN, București, 1999, ISBN 973-9427-20-0, 156 pag.

I.2. Gh. Zgura, Gh. Amza, M. Voicu, I. Tonoiu, G. Iacobescu, *Sudarea și procedee conexe*, Îndrumar de laborator, Fascicola 2, Editura U.P.B., 1989, 140 pag.

3^o ARTICOLE/STUDII PUBLICATE

a) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță (Ris)

1. **VOICULESCU, I.**, Geantă, V., Stern, A., Ashkenazi, D., Cohen, M., Cvikel, D. *Iron-Bound Deadeyes from Nineteenth-Century Akko Tower Wreck*, Israel: Metallurgical Investigation of the Manufacturing Technology. *Metallogr. Microstr. Anal.*, 2017, Volume 6, No. 1, doi 10.1007/s13632-017-0342-0, p. 106-125, Publisher Springer, USA. ISI Thomson Reuters, ISSN 2192-9262, ISSN: 2192-9270 (electronic version). IDS Number: ET7EA, Cited: 10. WOS: 000400455500002, Q2, SJR = 0,35 (2019).

2. **VOICULESCU, I.**, Geantă, V., Ștefănoiu, R., Patroi, D., Binchiciu, H., *Influence of the Chemical Composition on the Microstructure and Microhardness of AlCrFeCoNi High Entropy Alloy*. *Rev. Chim.*, Vol. 64, No. 12, 2013, p. 1441-1444. ISI Thomson Reuters, IF = 1,122 (Q3). ISSN: 0034-7752. Document Type: Article, Accession Number: WOS:000330914400016. Cited: 26

3. [VOICULESCU, I.](#), Geantă, V., Vasile, I.M., Ștefănoiu, R., Tonoiu, M., *Characterisation of weld deposits using as filler metal a high entropy alloy*. Journal of Optoelectronics and Advanced Materials, Vol. 15, No. 7-8, 2013, p.650 – 654. ISI Thomson Reuters, IF = 0,44 (Q4). ISSN: 1454-4164. Document Type: Article, Accession Number: WOS:000323397900009. Cited 15
4. [VOICULESCU, I.](#), Geantă, V., Vasile, I.M., Ștefănoiu, R., Iacob, M., *Researches regarding the obtaining of the electrode for spot welding*. Metalurgia International, Special Issue, no. 1, ISSN 1582-2214, 2013, p.52-55. ISI Thomson Reuters. Document Type: Article, Accession Number: WOS:000315368200011, IF = 0,103 (Q4).
5. [VOICULESCU, I.](#), R. Iovanas, D.M. Iovanas, C.G. Ceorapin, I.C. Roata, H. Binchiciu, *Performance Testing of Joints Brazed With Amorphous Filler material Type CuSn*, Metalurgia International, Vol. 14 (2009) SPEC. ISS. No.2, ISSN: 1582-2214, IDS Number: 430PQ, p. 143-146., IF=0.103 (Q4), WOS:000265001400035
6. [VOICULESCU, I.](#), Geanta V., Stefanescu, EV; Simion, G.; Scutelnicu, E. *Effect of Diffusion on Dissimilar Welded Joint between Al0.8CoCrFeNi High-Entropy Alloy and S235JR Structural Steel*, Metals, Art. No. 548, 2022, DOI 10.3390/met12040548, eISSN 2075-4701, WOS: 000786074200001, Q2, IF = 2,351, Cited 5
7. VOICULESCU, I; Geanta, V; Chereches, T; Vizureanu, P; Stefanoiu, R; Rotariu, A; Mitrica, D, *Impact Behavior of the Ballistic Targets Package Composed of Dyneema Polymer and High Entropy Alloy Structures*, [Archives of Metallurgy and Materials](#), Volume 67, Issue 2, Page 569-576, DOI 10.24425/amm.2022.137792, Published 2022, WOS:000813491300009, ISSN 1733-3490, eISSN 2300-1909, IF = 0,633, JCI = 0,18, Q4, cited 2
8. [VOICULESCU, I](#); [Geanta, V](#); [Stanciu, E.M](#); [Jianu, D.A](#); [Postolache, C](#); [Fugaru, V](#), *Effect of Irradiation and Temperature on Microstructural Characteristic of FeCrAl Alloys*, ACTA PHYSICA POLONICA A, Vol.134, Issue: 1, p: 116-118, Special Issue: SI, Published: 2018, DOI: 10.12693/APhysPolA.134.116, WOS:000451281600030, ISSN: 0587-4246, eISSN: 1898-794X, IDS Number: HB7SQ, IF = 0,857 (Q3). Cited 2
9. [VOICULESCU, I](#); Brito-Garcia, SJ; González-Díaz, OM; Mirza-Rosca, J, *Mechanical Characteristics and Corrosion Behavior of Two New Titanium Alloys*, [METALS](#), Volume 13, Issue 10, DOI 10.3390/met13101729, Article No.1729, Published OCT 2023, Indexed 2023-11-12. Article, WOS:001089804100001, eISSN 2075-4701, IDS W2EC0, Impact factor 2.9 (2022), JCI = 0,53. Q2, cited 1
10. Geanta, V., Dina, V; VOICULESCU, I; Stefanoiu, R; Cioaca, I. *OBTAINING AND CHARACTERIZATION OF RADIANT FLAMES IN GAS FUELS BURNING*, [UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE](#), Volume 69, Issue 4, Page 39-46, Published 2007, Indexed 2007-01-01, WOS:000440193600006, IF = 0,5, JCI = 0,07
11. Geantă, V., Ștefănoiu, R., VOICULESCU, I., *Experimental Researches on the Graphite Particles Dissolution during Injection Process in Ferrous Metallic Melts*. Rev.chim, Vol. 65, No. 1, p. 94-97, 2014. ISI Thomson Reuters, IF = 1,122 (Q3). ISSN: 0034-7752. Document Type: Article, Accession Number: WOS:000334150300019. Cited 1
12. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Savastru, D., Daisa, D.D., *Effect of thermal regime on the microstructure and microhardness of steels microalloyed with Nb and V*, Journal of optoelectronics and advanced materials, Vol. 15, No. 11-12, November – December 2013, p.1457 – 1462. ISI Thomson Reuters, FI = 0,38 (Q4). ISSN: 1454-4164. Document Type: Article, Accession Number: WOS:000329482600049. Cited: 7.
13. Geantă, V., Ștefănoiu, R., VOICULESCU, I., Daisa, D.D., *The influence of the technological parameters on the efficiency of the metal melts alloying process by pulverulent material injection*. Journal of Optoelectronics and Advanced Materials, vol. 13, No. 7-8, July 2011, p. 921 – 925. ISI Thomson Reuters, FI = 0,38 (Q4). ISSN: 1454-4164. Document Type: Article, Accession Number: WOS: 000294887100036. Cited: 7.
14. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Savastru, D., Csaki, I., Patroi, D., Leonat, L., *Processing and characterization of advanced multi-element high entropy materials from AlCrFeCoNi system*. Optoelectronics and advanced materials – Rapid Communications, Vol. 7, 2013, p.874-880. ISI Thomson Reuters, IF=0,38 (Q4). ISSN: 1842-6573. Document Type: Article, Accession Number: WOS:000328253100014. Cited: 14
15. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Tat, P.I., *Researches regarding the establishment of the optimal chemical composition of the centrifugal crushers retention sills*. Metalurgia International, Vol. 18, Special Issue, no. 1, ISSN 1582-2214, (2013), p.19-23. Document Type: Article, ISI Thomson Reuters. Accession Number: WOS:000315368200004, IF=0,103 (Q4), cited 1.
16. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Jianu, A., *Influence of chemical composition of FeCrAl alloys on the microhardness*. Metalurgia International, vol. 16 (2011), no. 5, ISSN 1582-2214, p.153-156. Document Type: Article, Accession Number: WOS:000289606200035. ISI Thomson Reuters. IF=0,103 (Q4) Cited: 5.

17. Ștefănoiu, R., Geantă, V., VOICULESCU, I., Csaki, I., Ghiban, N., *Researches regarding the influence of chemical composition on the properties of AlxCrFeCoNi alloys*. Rev. Chim, Vol. 65, No. 7, p. 819-821, (2014). ISI Thomson Reuters, FI=1,122. (Q3) ISSN: 0034-7752. Document Type: Article, Accession Number: WOS:000345545600016. Cited: 14
18. Ștefănoiu, R., Geantă, V., VOICULESCU, I., *Studies and researches on liquid steel temperature evolution at inert gas injection*. Metalurgia International, Vol. 18, Special Issue, no. 1, ISSN 1582-2214, (2013) p.48-51. ISI Thomson Reuters. Document Type: Article, Accession Number: WOS:000315368200010, IF=0,103, (Q4).
19. Pencea, I., Sfât, C., Geantă, V., Ștefănoiu, R., VOICULESCU, I., *New multiconvolutional approach for measurement uncertainty estimation. Case study for Vickers hardness test*. Metalurgia International, Vol. 18, Special Issue, no. 2, ISSN 1582-2214, 2013, p.57-62. Document Type: Article, ISI Thomson Reuters. Accession Number: WOS:000315312100012, IF= 0.103, (Q4). Cited 1
20. Dina, V., Geantă, V., Ștefănoiu, R., VOICULESCU, I., Cioacă, I., *Studies and researches regarding the Obtaining of Self-Carburizing Flames by Burning of Gas Fuels*. Metalurgia International, ISSN 1582-2214, vol. 13 (2008), nr. 1, p.5-10. Document Type: Article, Accession Number: WOS:000256690700001. ISI Thomson Reuters. IF=0,103 (Q4).
21. Minciună, M.G., Vizureanu, P., Geantă, V., VOICULESCU, I., Sandu, A.V., Achiței, D.C., Vitalariu, A.M., *Effect of Si on the mechanical properties of biomedical CoCrMo alloy*. Rev.chim., Vol. 66, Issue 6, p.891-894, (2015). ISI Thomson Reuters, IF = 0,81 (Q3) ISSN: 0034-7752. Document Type: Article, Accession Number: WOS:000357403600029, Cited: 16
22. A. Pascu, E. M. Stanciu, I. VOICULESCU, M. H. Țierean, I. C. Roată, J. L. Ocaña, *Chemical and Mechanical Characterisation of AISI 304 and AISI 1010 Laser Welding*, Materials and Manufacturing Processes, (2016) Vol. 31, issue 03, p. 311-318, ISSN: 1042-6914, eISSN: 1532-2475, IDS Number: CX4KX, WOS:000365670400008, DOI:10.1080/10426914.2015.1025970, (Q2) IF=2,274, Cited 13
23. Parfene, C.S., [Solomon, G.](#), [Ionita, D.](#), VOICULESCU, I., [Babis, C.](#), [Vasile, I.M.](#), *The Effect of Diffusible Hydrogen in Weld Seams on the Mechanical and Corrosion Behaviour of S235JR Steel Parts in 3.5% NaCl*, Rev.Chim., Volume: 65, Issue: 6, (2014) p: 710-714; IF=1,122,(Q3) WOS:000339140400017, Cited: 1
24. Ștefănoiu, R., Geantă, V., VOICULESCU, I., Suci, M.V., *Experimental Researches Regarding the Stirring Energy and Mixing Time of the Metal Bath as Steel Refining with Inert Gas*. Metalurgia International, vol. 13 (2008), no. 3 Special Issue, ISSN 1582-2214, p. 53-56, ISSN: 1582-2214. Document Type: Article, ISI Thomson Reuters Accession Number: WOS:000263117300009, IF= 0,103 (Q4). Cited 1
25. Turcan, O.; Dontu, O.; Ocana Moreno, JL ; Voiculescu, I ; Vasile, IM., ASPECTS REGARDING THE POSSIBILITY OF INCREASING HARDNESS ON A LOW CARBON STEEL ST37-2 BY SURFACE TREATMENT WITH CO₂ LASER, [UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE](#), Volume 76, Issue 2, Page 225-232, Published 2014, Indexed 2014-01-01, WOS:000440250900022, IF = 0,5, JCI = 0,07
26. Turcan O., Dontu O.G., Ocana Moreno J.L., VOICULESCU I., Savastru D., Vasile I.M., *Increasing of the superficial hardness of a coupling system realized from a low carbon steel ST 367-2 by surface treatment with Nd:YAG Laser*, Journal of Optoelectronics and Advanced Materials, Vol. 16. No 1-2, (2014), p. 20-24, IF=0,38 (Q4); WOS:000332347500004, Cited 3
27. Pavalache, A.C., VOICULESCU, I., Iordăchescu, D., Vasile, G., Stanciu, E.M., Apostol, G., *Obtaining Of Metal Matrix Composites Layers By Laser Cladding*, Metalurgia International, vol.16 (2011), Special Issue no. 5, ISSN 1582-2214, p. 121-124, IF=0,103, WOS:000289606200027, (Q4) Cited 2
28. A. Banu, N. Spataru, V. S. Teodorescu, A. V. Maraloiu, I. VOICULESCU, A. M. Marcu, T. Spataru, *Structural and electrochemical characterization of TiO₂/Pt hybrid catalyst system for direct bio-ethanol fuel cell*, Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 5, May (2010), p. 1189 – 1193, ISSN 1454-4164, IF=0,38 (Q4), Cited: 5, WOS:000279165400036
29. Vasile, I.M., VOICULESCU, I., Vasile, G., Zamfir, S., *Some aspects regarding the microstructural and mechanical characteristics of the weld deposit on microalloyed steels for dies (2013) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 75 (1), p. 209-216*. WOS:000440242300019, ISSN 1454-2331, IF = 0.5, JCI = 0,007, Cited 1

30. [E. M. Stanciu](#), [A. Pascu](#), [Tierean M.H.](#), [VOICULESCU I.](#), [I. C. Roată](#), [C. Croitoru](#) & [I. Hulka](#), Dual Coating Laser Cladding of NiCrBSi and Inconel 718, *Materials and Manufacturing Processes*, (2016) vol. 31, issue 12, p. 1556-1564, DOI:10.1080/10426914.2015.1103866, SRI 0,74, IF=2,274, WOS:000381388400003, (Q2); Cited: 29, ISSN: 1042-6914, eISSN: 1532-2475
31. [Geanta, V](#) ; [Taca, M](#) ; [Daisa, D](#) ; VOICULESCU, I., [Stefanoiu, R.](#), [Constantinescu, DM.](#), [Savastru, D.](#), *Influence of the chemical composition on the mechanical properties of forged microalloyed steels*, *Journal of Optoelectronics and Advanced Materials*, Vol. 17, Iss7-8 (2015) p: 1004-1011, IF = 0,29 (Q4), WOS:000359967600016, ISSN: 1454-4164, eISSN: 1841-7132. IDS Number: CP6AV Cited 4.
32. Avarvarei I., Dontu O., Besnea D., VOICULESCU I., Ciobanu R., *Laser welding of stainless steel capsules*, *Optoelectronics and Advanced Materials*, Rapid Communications, Volume: 4, Issue: 11(2010) p. 1894-1897, WOS:000285399400066, IF=0,36 (Q4), Cited 6
33. I. Csaki, R. Stefanoiu, V. Geanta, I. VOICULESCU, M.G. Sohaciu, A. Soare, G. Popescu, S. Serghiuta, *Researches regarding the processing technique impact on the chemical composition, microstructure and hardness of AlCrFeNiCo high entropy alloy*, *REV. CHIM*, 67, No. 7 (2016), p. 1373-1377, ISSN: 0034-7752, IDS Number: DZ0FN, WOS:000385513000029, Cited: 10, IF = 1,232 (Q3).
34. Geanta V., T. Chereches, P. Lixandru, I. VOICULESCU, R. Stefanoiu, D. Dragnea, T. Zecheru, L. Matache, *Virtual Testing of Composite Structures Made of High Entropy Alloys and Steel*, *Metals* 2017, Vol.7, Issue 11, art. Nr. 496 (2017); doi:10.3390/met7110496, p.1-14, ISSN: 2075-4701, WOS:000416803200046 (Q1,Q2), IF=1,704, cited 11, DOI: 10.3390/met7110496, cited 11
35. E.M. Stanciu, A. Pascu, M.H.Tierean, I.C.Roata, I. VOICULESCU, I. Hulka, C. Croitoru, *Dissimilar Laser Welding of AISI 321 and AISI 1010*, *Technical Gazette* 25, Issue 2 (2018), p.344-349, ISSN 1330-3651 (Print), ISSN 1848-6339 (Online), <https://doi.org/10.17559/TV-20160722151049>, IF=0,723, (Q4) WOS:000430936800006, DOI: 10.17559/TV-20160722151049, cited 6
36. [Milosan, I](#) ; [Flamant, G](#) ; VOICULESCU, I ; [Geanta, V.](#) [Munteanu, D.](#) ; [Bedo, T.](#) ; [Pop, M.A.](#) ; [Semenescu, A.](#) ; [Crisan, A.](#) ; [Cristea, D.](#) ; [Stoicanescu, M.](#) ; [Gabor, C.](#) ; [Sarbu, F.A.](#) ; [Ghiuta, I.](#), *Comparative Study of Heat Treatment Effects Performed with Solar Energy and Electric Furnace on EN 1.4848 Stainless Steel Alloyed with Co, W, Cu and Mo*, *REV.CHIM.* Bucharest, Vol. 69, Issue: 5 (2018) p: 1050-1054, ISSN: 0034-7752, IDS Number: GJ0OQ, IF=1,412 (Q3), cited 3
WOS:000434954100004
37. Spanu A.; Besnea D.; VOICULESCU I., *Improvement of Polymer Surface Properties Using the Deposition with Thin Metal Alloy Layers*, *Materiale Plastice*, Volume: 55, Issue: 2, p: 141-145, (2018) IF=1,248, WOS:000444147100002, ISSN: 0025-5289 (Q4), cited 2
38. Geantă V., I. VOICULESCU, I. Miloșan, B. Istrate, I. M. Mateș, *Chemical Composition Influence on Microhardness, Microstructure and Phases Morphology of Al_xCrFeCoNi High Entropy Alloys*, *Rev.chim* (Bucharest), 69, no. 4 (2018), p. 798-801, ISSN – 0034-7752, IF=1,412, (Q3) WOS:000433223000009, cited 12
39. Besliu, M. M.; VOICULESCU, I.; Solomon Gh., *Effects of Dilution on Weld Overlays Realized with Flux-Cored Arc Welding (FCAW) Process Using 309LV Filler Metal on the S235JR Steel*, *UPB, SCI. BULL.SERIES B-CHEMISTRY AND MATERIALS SCIENCE*, Volume: 79, Issue: 1, (2017) p: 173-182, IDS Number: FA9NK, WOS:000405772200018, ISSN: 1454-2331, cited 4
40. [Geanta V.](#), VOICULESCU I., [Stefanoiu R.](#), [Jianu A.](#), [Milosan I.](#), [Stanciu E.M.](#), [Pascu A.](#), [Vasile I.M.](#), *Titanium Influence on the Microstructure of FeCrAl Alloys Used for 4R Generation Nuclear Power Plants*, *Rev.Chim.(Bucharest)*, Vol. 70, Issue: 2 (2019) p: 549-554, IF=1,412 (Q3), WOS:000461982200038, ISSN: 0034-7752, IDS Number: HP8ZV, Cited 1
41. [Milosan, I](#) ; [Cristea, D](#) ; VOICULESCU, I. ; [Pop, MA](#) ; [Balat-Pichelin, M](#) ; [Predescu, AM](#) ; [Bogatu, CA](#) ; [Bedo, T](#) ; [Berbecaru, AC](#) ; [Geanta, V](#) ; [Gabor, C](#) ; [Isac, LA](#) ; [Sarbu, FA](#) ; [Oancea, G](#), *Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace*, *International Journal of Advanced Manufacturing Technology*, Vol: 101, Issue: 9-12, Pag: 2955-2964, DOI: 10.1007/s00170-018-3153-9, 2019, (Q2) IF = 2,496 (2018), IF = 2,748 (last 5 Years). WOS:000463669500060, ISSN: 0268-3768, eISSN: 1433-3015, Cited 7
42. Fazakas, E., Varga, B., Geanta, V., Berecz, T., Jenei, P., VOICULESCU, I., Coșniță, M., Ștefănoiu, R., *Microstructure, thermal, and corrosion behavior of the AlAgCuNiSnTi Equiatomic multicomponent alloy*

(2019) *Materials*, Vol: 12, Issue: 6, Article Number: 926, ISSN: 1996-1944, DOI: 10.3390/ma12060926, IF = 3.532, (Q2), WOS:000464359900010, cited 11

43. V. Geantă, I. VOICULESCU, T. Chereches, T. Zecheru, L.Matache, A.Rotariu, Behavior to Dynamic Loads of Composite Multi-layer Structures, *Mat. Plast.* Bucharest, Vol.6, Issue 2, 2019, p.460-465, IF = 1,605 (2018/1) (Q4). ISSN: 0025-5289, WOS:000476641000034,
44. V. Geanta, R. Ciocoiu, I. VOICULESCU*, Low Density Multi-principal Element Alloy from Al-Mg-Ca-Si-B System, *Rev. Chim. Bucharest*, Vol. 70, No.7 (2019) p. 2315 – 2320. (Q3) IF = 1,605, WOS: 000485843500003, ISSN: 0034-7752, IDS Number: IX7DH
45. V. Geantă, I. VOICULESCU*, D. TENCUI, L. BASCHIR, E. M. STANCIU, A. PASCU, Effect of laser processing on the microstructure of the FeCrAl alloys, *Journal Of Optoelectronics And Advanced Materials*, Vol. 22, No. 7-8, July – August 2020, p. 411 – 418. IF = 0,631 (2019), WOS:000583720800013, ISSN: 1454-4164 eISSN: 1841-7132. Cited 3
46. Constantin G., Balan E., VOICULESCU I., Geanta V, Craciun V, Cutting behavior of Al_{0.6}CoCrFeNi High Entropy Alloy, *Materials*, 20.09. 2020, Vol 13, Issue 18, Art. No. 4181; doi:10.3390/ma13184181, Q2, WOS: 000580829300001, eISSN: 1996-1944, PubMed ID: 32962284, IDS Number: OE9GG, IF = 3,057 (2019), IF = 3,424 (5 ani), Cited 22
47. [Geanta, V](#); VOICULESCU, I; [Istrate, B](#); [Vranceanu, DM](#); [Ciocoiu, R](#); [Cotrut, CM](#), *The Influence of Chromium Content on the Structural and Mechanical Properties of AlCr_xFeCoNi High Entropy Alloys*, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN AFRICA, Vol.37, (2018) p: 23-28, eISSN: 1663-4144, IDSNumber: GT2CJ, ISSN: 1663-3571, cited 13
DOI: 10.4028/www.scientific.net/JERA.37.23 WOS:000444288100003, cited 13, Q3, JCI=0,22
48. [Ioan Milosan](#), [Monica Florescu](#), [Daniel Cristea](#), [VOICULESCU I.](#), [Mihai Alin Pop](#), [Inmaculada Cañadas](#), [José Rodriguez](#), [Cristina Aurica Bogatu](#), [Tibor Bedo](#), Evaluation of Heat-Treated AISI 316 Stainless Steel in Solar Furnaces to Be Used as Possible Implant Material, *MATERIALS*, 13 (3): 2020, Article Number: 581, WOS: 000515503100088. doi: [10.3390/ma13030581](https://doi.org/10.3390/ma13030581), Impact Factor: 2.972 (2018); 5-Year Impact Factor: 3.532 (2018) pag. 581 (15 pag) Cited 5, Q2
49. Liliana Verestiuc, Mihaela-Claudia Spataru, Madalina Simona Baltatu, Maria Butnaru, Carmen Solcan, Andrei Victor Sandu, VOICULESCU I., Victor Geanta, Petrica Vizureanu, *New Ti–Mo–Si materials for bone prosthesis applications*, *Journal of the mechanical behavior of biomedical materials*, Vol.113 (15.ian. 2021) Art. No. 104198, Q2, IF (2019) = 3,372, IF (5 ani) = 3,622. Publisher ELSEVIER, RADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS, ISSN: 1751-6161, eISSN: 1878-0180, PubMed ID: 33181439DOI: 10.1016/j.jmbbm.2020.104198, WOS:000599657400007, 12 pag. Cited 31
50. Mihaela Claudia Spataru; Maria Butnaru; Andrei Victor Sandu; Vasile Vulpe; Maria Daniela Vlad; Madalina Simona Baltatu; Victor Geanta; VOICULESCU I.; Petrica Vizureanu; Carmen Solcan, *In-depth Assessment of New Ti-based Biocompatible Materials*, *Materials Chemistry and Physics*, Vol. 258 (15.01.2021) Article Number:123959. WOS:000595150900003, ISSN: 0254-0584, eISSN: 1879-3312, Q2, IF (2019) = 3,408, IF (5 ani) =2,884, DOI: 10.1016/j.matchemphys.2020.123959, Publisher ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND, Cited 24
51. [M. López Ríos](#), [P. P. Socorro Perdomo](#), I. VOICULESCU, V. Geanta, J.C Mîrza Roşca, V. Craciun. I. Boerasu, Effects of nickel content on the microstructure, microhardness and corrosion behavior of high-entropy AlCoCrFeNi_x alloys, *Nature Research, Scientific Reports* 10(1), 03. December 2020, art. No. 21119. DOI: [10.1038/s41598-020-78108-5](https://doi.org/10.1038/s41598-020-78108-5), Q1 (3.998 -2019; 4.576 – 5 ani) Publisher NATURE RESEARCH, HEIDELBERGER PLATZ 3, BERLIN, 14197, GERMANY, WOS:000615394300119, PubMed ID: 33273627, ISSN: 2045-2322, Cited 39.
52. [Geantă V.](#), [VOICULESCU I.](#), [Cotrut M.C.](#), [Vrânceanu MD](#), [Vasile I.M.](#), [Mirza Rosca J.C.](#), Effect of Al on Corrosion Behavior in 3.5%NaCl Solution of Al_xCoCrFeNi High Entropy Alloys, *International Journal of Engineering Research in Africa*, Volume 53, p. 20-30, 2021, <https://doi.org/10.4028/www.scientific.net/JERA.53.20>, WOS:000626257200002, ISSN: 1663-3571, eISSN: 1663-4144, IDS Number, IF = 0,87, Cited 8, QT0BW
53. Geanta, V., VOICULESCU, I., Kelemen, H., Manu, D., Molnar, G., Kelemen G., Mg-Ca-Zn bio-degradable light alloys produced in a levitation induction melting furnace, INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, Volume: 63, Pages: S69-S78, Supplement: 1, Published: 2020,

- DOI: 10.3233/JAE-209113, Conference: HES Conference, Location: Padua Univ, Padua, ITALY, Date: MAY 22-24, 2019, WOS:000547882500009, IF = 0,684 (2019), IF = 0,71(5 ani) Q4, ISSN: 1383-5416, eISSN: 1875-8800, Publisher IOS PRESS, NIEUWE HEMWEG 6B, 1013 BG AMSTERDAM, NETHERLANDS. Cited 3.
54. Baltatu, MS Spataru, MC, Verestiuc, L., Balan, V, Solcan, C., Sandu, AV., Geanta, V., VOICULESCU, I., Vizureanu, P, Design, Synthesis, and Preliminary Evaluation for Ti-Mo-Zr-Ta-Si Alloys for Potential Implant Applications, *MATERIALS*, Volume 14, Issue 22, Article No. 6806, DOI 10.3390/ma14226806, Published NOV 2021, Article, PubMed ID 34832207, eISSN 1996-1944, IDS Number XJ9CO, IF = 3.623, Q1 WOS:000727076700001, Cited 17.
 55. Dijmarescu, MR, Abaza, BF, VOICULESCU, I., Dijmarescu, MC, Ciocan, I., Surface Roughness Analysis and Prediction with an Artificial Neural Network Model for Dry Milling of Co-Cr Biomedical Alloys, *MATERIALS*, Volume 14, Issue 21, Article No. 6361, DOI 10.3390/ma14216361, Published NOV 2021, Document Type Article, WOS:000720456800001, PubMed ID, 34771885, eISSN 1996-1944, IDS Number XA2AN, IF = 3.623, Cited 12, Q1.
 56. Socorro-Perdomo, PP, Florido-Suarez, NR, VOICULESCU I., Mirza-Rosca, JC, Comparative EIS Study of AlxCoCrFeNi Alloys in Ringer's Solution for Medical Instruments, *METALS*, Volume 11, Issue 6, Article Number 928, DOI 10.3390/met11060928, Published JUN 2021, Document Type Article, eISSN: 2075-4701, Current Publisher MDPIST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND, WOS:000667378600001, IF = 2,351, Cited 22, Q2.
 57. Codescu MM, Vladescu A, Geanta V., VOICULESCU I., Pana I., Dinu M., Kiss A.E., Braic V., Patroi D., Marinescu V.E., Iardoc M., Zn-based hydroxyapatite based coatings deposited on a novel FeMoTaTiZr biocompatible high entropy alloy used for bone implants, *Surfaces and Interfaces*, 9 Nov. 2021, No. 101591, <https://doi.org/10.1016/j.surfin.2021.101591>. Vol. 28, Art. Number 101591, DOI 10.1016/j.surfin.2021.101591, Published FEB 2022 Indexed 2022-03-21 Document Type Article, WOS:000764258400004, ISSN 2468-0230, IF = 4,837 (2020), Q1, JCR= 0,569, Current Publisher ELSEVIERRADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS, Cited 15.
 58. Spataru M.C., Cojocaru F.D., Sandu A.V., Solcan C., Duceac I.A., Baltatu M.S., VOICULESCU I., Geanta V., Vizureanu P., Assessment of the Effects of Si Addition to a New TiMoZrTa System, *Materials* 2021, 14,7610. <https://doi.org/10.3390/ma14247610>. eISSN 1996-1944, Cited 17, Q1 WOS:000738296700001
 59. Chioibas, D.; Mihai, S.; Cotrut, C.M.; VOICULESCU, I.; Popescu, A.C., Tribology and corrosion behavior of gray cast iron brake discs coated with Inconel 718 by direct energy deposition, [INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY](https://doi.org/10.1007/s00170-022-09646-7), Q2, Volume 121, Issue 7-8, Page 5091-5107, Published, AUG 2022, DOI 10.1007/s00170-022-09646-7, ISSN: 0268-3768, eISSN: 1433-3015, WOS:000824451600013. IF = 3,563, Cited 7
 60. Mitru, A., Semenescu, A., Simion, G., Scutelnicu, E., VOICULESCU, I., Study on the Weldability of Copper-304L Stainless Steel Dissimilar Joint Performed by Robotic Gas Tungsten Arc Welding, *Materials*, Vol. 15., Issue 16, Article Number 5535, DOI 10.3390/ma15165535, Published AUG 2022, Indexed 2022-09-03, Q1, WOS:000845640800001, IF = 3,748, JCI = 0,62, PubMed ID 36013671, eISSN 1996-1944. Cited 2
 61. Laszlo, EA; Craciun, D; Dorcioman, G; Craciun, G; Geanta, V; VOICULESCU, I; Cristea, D; Craciun, V., Characteristics of Thin High Entropy Alloy Films Grown by Pulsed Laser Deposition, *Coatings*, 2022, Vol. 12, Issue 8, Art no. 1211, Q2, DOI 10.3390/coatings12081211, WOS:000846020100001, IF = 3,236, JCI=0,55. ISSN: 2079-6412, Cited 2
 62. Geambazu, LE; VOICULESCU, I; Manea, CA; Bololoi, RV., Economic Efficiency of High-Entropy Alloy Corrosion-Resistant Coatings Designed for Geothermal Turbine Blades: A Case Study, *Applied Science-Basel*, Vol.12, Issue 14, Art. No. 7196, 2022, DOI 10.3390/app12147196, IF = 2,838, JCI = 0,59, WOS:000831884200001, eISSN 2076-3417. Q2. Cited 4
 63. Brito-Garcia, S.J; Mirza-Rosca, J.C.; Geanta, V.; VOICULESCU, I., Mechanical and Corrosion Behavior of Zr-Doped High-Entropy Alloy from CoCrFeMoNi System, *MATERIALS*, Volume 16, Issue 5, Article Number 1832, DOI 10.3390/ma16051832, Published, MAR 2023, Indexed 2023-03-31, Document Type Article, WOS:000948025900001, PubMed ID 36902947, eISSN 1996-1944, IF=3,748, JC=0,62, Q1, cited 5
 64. Roman, AM; VOICULESCU, I; Cimpoesu, R; Istrate, B; Chelariu, R; Cimpoesu, N; Zegan, G; Panaghie, C; Lohan, NM; Axinte, M; Murariu, AM, Microstructure, Shape Memory Effect, Chemical Composition and

- Corrosion Resistance Performance of Biodegradable FeMnSi-Al Alloy, Crystals, Volume 13, Issue 1, Article Number 109, DOI10.3390/cryst13010109, Published JAN 2023, Indexed 2023-02-05, Document Type Article, WOS:000917018500001, eISSN 2073-4352, IF = 2,67, JC = 0,68, Q2, cited 6
65. Brito-Garcia S.J., Mirza-Rosca J.C., Jimenez-Marcos C. and VOICULESCU I., Impact of Ti doping on the microstructure and mechanical properties of CoCrFeMoNi high entropy alloy, 2023, Metals, Vol. 13, Issue 5, Art. no. 854, DOI [10.3390/met13050854](https://doi.org/10.3390/met13050854), ISSN 2075-4701, WOS 000997342500001, IF = 2,695, SJR = 0,5, Q2, cited 1
66. Brito-Garcia S.J, Mirza-Rosca J.C., Jimenez-Marcos C., VOICULESCU I., EIS Study of doped high-entropy alloy, publ. 2 May 2023, [Metals - Open Access Metallurgy Journal](https://doi.org/10.3390/met13050883), Vol 13(5): art. no 883, eISSN: 2075-4701DOI: [10.3390/met13050883](https://doi.org/10.3390/met13050883), WOS: 000996578100001, IF = 2,695, SJR = 0,5, Q2, cited 3
67. M. Nahmany, Z. Hooper, A. Stern, V. Geanta, I. VOICULESCU, *AlxCrFeCoNi High-Entropy Alloys: Surface Modification by Electron Beam Bead-on-Plate Melting, Metallography Microstructure and Analysis*, (2016) Vol., 5, Issue 3, p. 229–240, ISSN: 2192-9262, eISSN: 2192-9270, IDS Number: DO2IY, DOI10.1007/s13632-016-0276-y, WOS:000377604500006, IF =1,6 JCR=0,36, Cited 22
68. Craciun, D ; Laszlo, EA ; Mirza-Rosca, JC ; Dorcioman, G ; Geanta, V ; VOICULESCU, I ; Craciun, G ; Badea, L ; Craciun, V, Structural Parameters and Behavior in Simulated Body Fluid of High Entropy Alloy Thin Films, [MATERIALS](https://doi.org/10.3390/ma17051162), Volume 17, Issue 5, DOI 10.3390/ma17051162, Article Number 1162, Pub.MAR 2024, Indexed 2024-03-30, WOS:001182880900001, ID 38473633, eISSN 1996-1944, IDS Number KW0L6, IF=3.4, JCI=0.59.Cited 2

Articole in volume ale unor conferințe ISI

1. **VOICULESCU, I.**, Donțu, O., Geantă, V., Ganatsios, S., *Effect of the Laser Beam Superficial Heat Treatment on the Gas Tungsten Arc Ti-6Al-V Welded Metal Microstructure*, Conference on Industrial Laser Applications (INDLAS 2007) Bran, ROMANIA, MAY 23-25, **2007**: INDUSTRIAL LASER APPLICATIONS Book Series: Proceedings of SPIE, Volume: 7007, p.703-706, Article no.: 70070M Published: 2008, **ISI Thomson Reuters. Recenzii/Indexări: SCOPUS.** WOS:000259260400021.
2. **VOICULESCU, I.**; Geanta, V.; Vasile, I. M.; E.F. Binchiciu, R. Winestock, *Chemical elements diffusion in the stainless steel components brazed with Cu-Ag alloy*, INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH - ICIR EUROINVENT 2016, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 133, p. 1-8, Article Number: UNSP 012014, doi:10.1088/1757-899X/133/1/012016, Published: **2016**; ISSN: 1757-8981, WOS:000391140000014, Cited 2
3. **VOICULESCU, I.**; Geanta, V.; Binchiciu, H.; Iovanas, D.; Stefanoiu, R., *Dissimilar Brazed Joints Between Steel and Tungsten Carbide*, INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH - ICIR EUROINVENT 2017, Edited by: [Sandu, AV](#); [Abdullah, MMA](#); [Vizureanu, P](#); [Ghazali, CMR](#); [Sandu, I](#), Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012021, DOI: 10.1088/1757-899X/209/1/012021, **2017**, p.1-8, ISSN: 1757-8981, IDS Number: BJ3KA, WOS:000423732100021, cited 3
4. **VOICULESCU, I.**; Geanta, V.; Stefanoiu, R; Cotrut, C.; Ciocoiu R.; Ionescu, M., *Mechanical and Microstructural Characterization of a New Corrosion Resistant Stainless Steel*, EUROINVENT ICIR **2018**, IOP Conference Series-Materials Science and Engineering, **Volume**: 374, p. 1-8, **Article Number**: UNSP 012018, ISSN: 1757-8981 **DOI**: 10.1088/1757-899X/374/1/012018, **ISI Thomson Reuters.Recenzii/Indexări:SCOPUS.** WOS:000446775900018
5. Geantă, V., **VOICULESCU, I.**, Ștefănoiu, R., Chiriță, I., *Obtaining and Characterization of Biocompatible Co-Cr as Cast Alloys*. Key Engineering Materials Vol. 583, (**2014**) Trans Tech Publications, Switzerland, p. 16-21. (**BiomMed V** - selected, peer reviewed papers from the 5th International Conference on "Biomaterials, Tissue Engineering & Medical Devices"-BiomMedD'2012 ISSN: print 1013-9826, cd 1662-9809, web 1662-9795. doi: [10.4028/www.scientific.net/KEM.583.16](https://doi.org/10.4028/www.scientific.net/KEM.583.16). **ISI Thomson Reuters.Recenzii/Indexări:SCOPUS.** WOS:000336552600003, Cited: 5
6. Geantă, V., **VOICULESCU, I.**, Ștefănoiu, R., Rusu, E. R., *Stainless Steels with Biocompatible Properties for Medical Devices*. Key Engineering Materials Vol. 583, (2014) Trans Tech Publications, Switzerland (2014)

p. 9-15. (**BiomMedD V** - selected, peer reviewed papers from the 5th International Conference on "Biomaterials, Tissue Engineering & Medical Devices"-BiomMedD'2012), p. 9-15, 2014. ISSN: print 1013-9826, cd 1662-9809, web 1662-9795. doi: 10.4028/www.scientific.net/KEM.583.9. ISI Thomson Reuters.Recenzii/Indexări:SCOPUS, WOS:000336552600002, cited 10, Q3-Q4, IF=0,224

7. Vladutoiu, L.; Vladut, V.; **VOICULESCU, I.**; Matache M., Radu O., Biris. S, Vocea I., Paraschiv G., Atanasov A., Usenko M., *Increasing Agricultural Machinery Active Parts Durability by Hardening*, 43rd International Symposium on Agricultural Engineering, Opatija, CROATIA, FEB 24-27, 2015, Book Series: Actual Tasks on Agricultural Engineering-Zagreb, Volume: 43, p: 153-164, Published: (2015), **ISI Thomson Reuters. Recenzii/Indexări: SCOPUS**. ISSN: 1848-4425, IDS Number: BE5UT, WOS:000373450700013, cited 3.
8. Pavalache, A.C.; Vasile, I.M.; Stanciu, E.M.; **VOICULESCU I.**, *Case Study about the Effect of Measurement Parameters Values on the Microhardness Results*, Book Group, Conference: IEEE International Workshop on Advanced Methods for Uncertainty Estimation in Measurement, Bucharest, ROMANIA Date: JUL 06-07, 2009, IEEE, p: 54-57 Published: 2009, **ISI Thomson Reuters**.Cited: 2 WOS:000274329100011,
9. Ceorapin, C. G.; Iovanas, R., **VOICULESCU, I.**; Iovanas D.M, Pascu A., *Spot Welding Electrodes with the Active Area Achieved by Cladding with MMA Welding*, Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium, Vienna, AUSTRIA, NOV 25-28, 2009, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM, Book Series: Annals of DAAAM and Proceedings, Vol. 20, Published: 2009, p: 1361-1362, WOS:000282335600681, **ISI Thomson Reuters. Recenzii/Indexări: SCOPUS**.
10. Geanta, V.; **VOICULESCU, I.**; Stanciu, E-M, *Hafnium influence on the microstructure of FeCrAl alloys*, Iasi, ROMANIA, INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH – ICIR EUROINVENT 2016, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 133, p. 1-8, Article Number: UNSP 012016, Published: 2016, DOI:10.1088/1757-899X/133/1/012016;ISSN: 1757-8981.WOS:000391140000016, Cited: 5,
11. Croitoru, S.M.;**VOICULESCU, I.**; Trusca, R., Superficial hardened layer of cut surface by turning, 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION, MATEC Web of Conferences, Vol. 121, p. 1-9, DOI: 10.1051/mateconf/201712101003, **ISI Thomson Reuters. Recenzii/Indexări: SCOPUS**. WOS:000435283800003, ISSN: 2261-236X
12. Iovanaş D.M., Binchiciu H., **VOICULESCU I.**, Binchiciu E.F., Factors that influence the quality constant of the manufacturing process for asphalt milling knives, 8-th INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION, MATEC Web of Conferences, Vol. 121, p. 1-7, Article Number: UNSP 03010, IDSNumber: BK3OC, ISSN: 2261-236X, **ISI Thomson Reuters. Recenzii/Indexări: SCOPUS**. DOI: 10.1051/mateconf/201712103010, WOS:000435283800038.
13. Geantă, V., Cherecheş, T., Lixandru, P., **VOICULESCU, I.**, Ştefănoiu, R., Dragnea, D., Zecheru., T, Matache, L. Simulation of Impact Phenomena on the Composite Structures Containing Ceramic Plates and High Entropy Alloys. In *IOP Conference Series: Materials Science and Engineering* (Vol. 209) (2017) p. 1-9, Institute of Physics Publishing. **ISI Thomson Reuters**. <https://doi.org/10.1088/1757-899X/209/1/012043>, WOS:000423732100043, ISSN: 1757-8981, IDS Number: BJ3KA
14. R. C. Crăciun, S. Stanciu, V. Geantă, **I. VOICULESCU**, V. Manole, I. A. Gârneţ, A. Alexandru, N. Cimpoesu and F. Săndulache, Preliminary Results from Duplex Procedure for Obtain of Fe Based Materials for Automotive Applications, International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing Conf. Series: Materials Science and Engineering (2017) doi:10.1088/1757-899X/209/1/012048, p.1-6, IDS No. BJ3KA, WOS:000423732100048, ISSN: 1757-8981. **ISI Thomson**
15. Geanta, V., **VOICULESCU I.**, Stefanoiu R.,Chereches, T.; Zecheru, T.; Matache, L.; Rotariu, A., Dynamic Impact Behaviour of High Entropy Alloys Used in the Military Domain, EUROINVENT ICIR 2018, Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 374, p. 1-11, **Article Number: UNSP 012041, DOI: 10.1088/1757-899X/374/1/012041, ISSN: 1757-8981 (2018), WOS:000446775900041, cited 2.**

16. Taca, M.; Daisa, D.; Geanta, V.; Stefanoiu, R; **VOICULESCU, I.**; Constantinescu, D.M., *Influence of forging parameters on the structure and toughness of forged parts*, MATERIALS TODAY-PROCEEDINGS, Vol. 4, Issue: 5, p. 5969-5972, Part: 1, published: **2017**, Document Type: Proceedings Paper, ISSN: 2214-7853, IDS Number: FO0VN, WOS:000416470400041
17. Dijmarescu, M.R., Dijmarescu, M.C., **VOICULESCU, I.**, Popovici, T.D., Tarba, I.C., *Study on the influence of cutting parameters on surface quality when machining a CoCrMo alloy*, IOP Conference Series: Materials Science and Engineering Volume 400, Issue 2, **2018**, Article number 0220206, p. 1-7, International Conference on Modern Technologies in Industrial Engineering, ModTech 2018; Code 141170, DOI: 10.1088/1757-899X/400/2/022020, ISSN: 1757-8981, WOS:000461147400020, Cited 2
18. [Geanta, V.](#); **VOICULESCU, I.**; [Kelemen, H.](#); [Kelemen, G.](#), Obtaining of light biocompatible magnesium alloys using levitation equipment under controlled argon atmosphere, XXIII INTERNATIONAL CONFERENCE ON MANUFACTURING (MANUFACTURING 2018), IOP Conference Series-Materials Science and Engineering, Vol. 448, UNSP 012004, DOI: 10.1088/1757-899X/448/1/012004, 2018, WOS:000467870800004, ISSN: 1757-8981, cited 2.
19. Matache, L. C.; [Lixandru, P.](#); [Chereches, T.](#); [Mazuru, A.](#); [Chereches, D.](#); [Geanta, V.](#); **VOICULESCU, I.**; [Trana, E.](#); [Rotariu, AN.](#), Determination of material constants for high strain rate constitutive model of high entropy alloys, MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VII (MODTECH2019), IOP Conference Series-Materials Science and Engineering, **Volume: 591, Article Number: 012057, DOI: 10.1088/1757-899X/591/1/012057, Published: 2019, JUN 19-22, 2019, WOS:000562929900057.**

b) Alte reviste de specialitate de circulație internațională (Rio)

1. Iacobescu, G., **Voiculescu, I., A mathematical model for humidifying the electrodes coats**, (2006) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 68 (4), p. 51-58. Cited 2
2. Iovanas, R., **Voiculescu, I.**, Binchiciu, H., Iovanas, D., Geanta, V., Binchiciu, A., Ceorapin, C.-G., **Researches concerning the realization of the active surfaces submitted to complex wears using interchangeable modulated elements, welded on with hard batches with special consumables**, (2007) *Welding in the World*, 51 (SPEC. ISS.), p. 631-636.
3. Geantă, V., **Voiculescu, I.**, Binchiciu, H., Vida Simiti, I., Jumate, N., Ștefănoiu, R., **Steel structures hard-facing using composite core electrode** (2007) *Welding in the World*, 51 (SPEC. ISS.), p. 749-756. Cited 1
4. **Voiculescu, I.**, Geantă, V., Binchiciu, H., Vida-Simiti, I., Jumate, N., Vasiu, R., **Study on tin bronze alloy weld deposit using composite core electrode** (2007) *Welding in the World*, 51 (SPEC. ISS.), p. 741-748.
5. Iacobescu, G., **Voiculescu, I.**, Solomon, G., **A theoretical model for estimating the effects of the humidity in some electrode pastes on the diffusible hydrogen in the weld deposit** (2007) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 69 (2), p. 69-76. Cited 1
6. Geantă, V., Dina, V., **Voiculescu, I.**, Ștefănoiu, R., Cioacă, I., **Obtaining and characterization of radiant flames in gas fuels burning** (2007) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 69 (4), p. 39-46.
7. Jumate, N., Vida-Simiti, I., Geantă, V., **Voiculescu, I.**, Binchiciu, H., **Structure of anti-friction layers obtained by thermal deposition with bronze electrodes** (2008) *Welding in the World*, 52 (SPEC. ISS.), p. 735-737.
8. Rontescu, C., **Voiculescu, I.**, Iacobescu, G., Dumitrascu, C., Cicic, D.-T., **Analysis of the thermal field for tig welding by using infrared thermography** (2008) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 70 (3), p. 55-60. Cited 1
9. Rontescu, C., **Voiculescu, I.**, Iacobescu, G., Cicic, D.-T., **Influence of the parameters preheating temperature and linear energy on the micrographic and macrographic characteristics of welded joints** (2009) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 71 (2), p. 41-52. Cited 1
10. **Voiculescu, I.**, Geanta, V., Alexandrescu, E., Pavalache, A.-C., Stanciu, E.-M., **Cooper-carbide composite layer obtained by laser beam remelting** (2010) *Annals of DAAAM and Proceedings of the International DAAAM Symposium*, p. 801-802.
11. Ciobanu, R., Dontu, O., Besnea, D., Avarvarei, I., **Voiculescu, I.**, **Inertial system used to analyze normal and pathological human gait** (2010) *ICMET 2010-International Conference on Mechanical and Electrical Technology, Proceedings*, art. no. 5598329, p. 109-112. Cited 1.

12. Păvălache, A.C., Stanciu, E.M., **Voiculescu, I.**, Dumitru, G.M., Donțu, O., Besnea, D., Vasile, I.M., **Effect of the strengthening particles on the characteristics of hardfaced layers by tig cladding** (2010) *Romanian Review Precision Mechanics, Optics and Mechatronics*, (38), p. 117-122.
13. Avarvarei, I., Donțu, O., Besnea, D., **Voiculescu, I.**, Ciobanu, R., Popescu, I., **Laser microwelding of radioactive microcapsules made of high-alloyed steel** (2010) *29th International Congress on Applications of Lasers and Electro-Optics, ICALEO 2010 - Congress Proceedings*, 103, p. 1451-1455.
14. **Voiculescu, I.**, Geanta, V., Stefanoiu, R., Binchiciu, H., Simiti, I.V., Jumate, N., Vasiu, R., **Study on Hardfaced Wear Resistant Bronze Alloy** (2011) *Friction, Wear and Wear Protection: International Symposium on Friction, 2008, Aachen, Germany*, p. 610-617.
15. Avarvarei, I., Gerard, A., Donțu, O., **Voiculescu, I.**, Besnea, D., Ciobanu, R., **The material's temperature influence on absorption degree of laser radiation in technological processes** (2011) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 73 (2), p. 151-160. Cited 2.
16. Bratean, L., Miclosi, V., **Voiculescu, I.**, Iacobescu, G., **Research on anticorrosion characteristics of AlZn pseudo-alloy obtained by metal-arc process** (2011) *UPB Scientific Bulletin, Series D: Mechanical Engineering*, 73 (4), p. 151-164.
17. Turcan, O., Comeaga, D., Donțu, O., **Voiculescu, I.**, **Improvement of low carbon steel ST37-2 by laser surface alloying with metallic powders**, (Sept. 2013) *Advanced Materials Research*, 816-817, p. 250-254. Cited 1. doi.org/10.4028/www.scientific.net/AMR.816-817.250
18. Popovici, V., Pavalache, A.C., Vasile, I.M., **Voiculescu, I.**, Stanciu, E.M., Pausan, D., **Finite element method for simulating the Vickers hardness test** (2014) *Applied Mechanics and Materials*, 555, p. 419-424. Cited 1.
19. Turcan, O., Donțu, O., Ocana Moreno, J.L., **Voiculescu, I.**, Vasile, I.M., **Aspects regarding the possibility of increasing hardness on a low carbon steel ST37-2 by surface treatment with CO2 laser** (2014) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 76 (2), p. 225-232.
20. Binchiciu, E., Fleșer, T., **Voiculescu, I.**, **Composite rods for brazing** (2014) *Advanced Materials Research*, 1029, p. 72-77. Cited 1.
21. Binchiciu, E., Fleșer, T., **Voiculescu, I.**, **Experimental research regarding the development of ecological CuSnP powder** (2014) *Applied Mechanics and Materials*, 656, p. 23-29 doi.org/10.4028/www.scientific.net/AMM.656.23
22. **Voiculescu, I.**, Stanciu, E.-M., Vasile, I.M., Geanta, V., Laurian, T., Chisiu, G., **Tribological behavior of composite electrodes for spot welding** (2014) *Applied Mechanics and Materials*, 656, p. 3-10.
23. Parfene, C.S., Solomon, G., **Voiculescu, I.**, Vasile, I.M., Ionita, D., **Researches on fracture surfaces electrochemically charged with hydrogen** (2014) *Advanced Materials Research*, 1036, p. 146-151.
24. **Voiculescu, I.**, Geanta, V., Ionescu, M., **Effects of heat treatments on the microstructure and microhardness of AlxCrFeNiMn alloys**, (2015) *Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, 26, p. 5-11. Cited 1 time.
25. E. F. Binchiciu, T. Fleșer, **I. Voiculescu**, A. Binchiciu, Coated Rods for Brazing Structures Used in High Safety Conditions, October 2015, *Advanced Materials Research (Volume 1128)*, p. 224-229, doi.org/10.4028/www.scientific.net/AMR.1128.224
26. E.F. Binchiciu, T. Fleșer, **I. Voiculescu**, Chemical Active Coated Rods Used for Brazing, *Advanced Materials Research (Volume 1111)* p. 25-30, July 2015, doi.org/10.4028/www.scientific.net/AMR.1111.25
27. Taca, M., Daisa, D., Geanta, V., Stefanoiu, R., **Voiculescu, I.**, Constantinescu, D.M., Vintila, A., **At influence of forging parameters on the structure and toughness of forged parts** (2016) *33rd Danubia Adria Symposium on Advances in Experimental Mechanics*, p. 126-127.
28. **Voiculescu, I.**, Geanta, V., Rusu, C.C., Mircea, O., Mistodie, L.R., Scutelnicu, E., **Research on the metallurgical behaviour of X70 steel subjected to Multi-Wire submerged arc welding** (2016) *Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, 27, p. 38-46. Cited 1.
29. Emilia Florina Binchiciu*, Traian Fleșer, **Ionelia Voiculescu**, Victor Geantă, Composite Deposits Developed by Welding on Horizontal Mill Hammers, *Advanced Materials Research (Volume 1146)*, p. 27-31, April 2018, doi.org/10.4028/www.scientific.net/AMR.1146.27
30. E. F. Binchiciu, Nicușor Alin Sîrbu, **Ionelia Voiculescu**, Victor Geantă, Gabriela Victoria Mnerie, "Research on Metallurgic Active Precursors", *Advanced Materials Research*, Vol. 1153, 2019, p. 46-51. doi.org/10.4028/www.scientific.net/AMR.1153.46
31. E. F. Binchiciu, **Ionelia Voiculescu**, Victor Geantă, Nicușor Alin Sîrbu, Ion Aurel Perianu, "Activating Precursors for Brazing Processes that Deposit Two Layers through Melting", *Advanced Materials Research*, Vol. 1153, 2019, p. 52-57. doi.org/10.4028/www.scientific.net/AMR.1153.52
32. Vasile, Ion Mihai; Voiculescu, Ionelia; Vasile, Georgiana; Zamfir, Simona, Some aspects regarding the microstructural and mechanical characteristics of the weld deposit on microalloyed steels for dies, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, Vol. 75, Iss (2013) p. 209 -216, ISSN 1454-2331, Cited 1.

34. **Voiculescu I.***, V Geantă, R Ștefănoiu, A Rotariu, E Scutelnicu, M C Pantilimon, D Mitrică and V Crăciun, *New Refractory High Entropy Alloys*, ICIR Iasi 2019, IOP Conference Series: Materials Science and Engineering, 572(1),012024
35. Tudoran S., **Voiculescu I.***, Geantă V., Vizureanu P., Mirza Roșca J.C., Pătrașcu I., Gălbinașu B. M., Ciocoiu R., Effects of the chemical composition on the microstructural characteristics of Ti-Nb-Ta-Zr alloys, ICIR Iasi 2019, IOP Conference Series: Materials Science and Engineering, 572(1),012022, doi:10.1088/1757-899X/572/1/012022
36. Geantă V., **Voiculescu I.**, Ștefănoiu R.*, Codescu M., Kelemen H., Pavel G., Vlădescu A., Sandu A.V., Obtaining and characterisation of high entropy alloys used for medical applications, ICIR Iasi 2019, IOP Conference Series: Materials Science and Engineering, 572(1),012023.
37. Băltatu, M.S., Vizureanu, P., Goanta, V., Țugui, C.A., **Voiculescu, I.**, Mechanical tests for Ti-based alloys as new medical materials, IOP Conference 2019, Series: Materials Science and Engineering, 2019, 572(1),012029. doi:10.1088/1757-899X/572/1/012029
38. Matache, L.C., Lixandru, P., Chereches, T., Mazuru, A., Chereches, D., Geanta, V., **Voiculescu I.**, Trana, E., Rotariu, A.N., Determination of material constants for high strain rate constitutive model of high entropy alloys, IOP Conference Series: Materials Science and Engineering Volume 591, Issue 1, 14 August 2019, Article number 0120577th International Conference on Modern Technologies in Industrial Engineering, ModTech 2019; Romania; 19 -22 June 2019; Code 151214.
39. Elena Scutelnicu, George Simion, Carmen Catalina Rusu, Marius Corneliu Gheonea, **Ionelia Voiculescu**, Victor Geanta, *High Entropy Alloys Behaviour During Welding*, Revista de Chimie, 71 (3), 2020, 219-233. <https://doi.org/10.37358/RC.20.3.7991>
40. Geanta, V., **Voiculescu***, I., Tudoran, S., Effects of Fe and Mn on Microstructure and Microhardness of Titanium Alloys, Rev. Chim., 71 (4), 2020, p. 87-94, <https://revistadechimie.ro>, <https://doi.org/10.37358/Rev. Chim.1949>.
41. Victor Geanta, **Ionelia Voiculescu** and Horia Binchiciu, Composite Matrix Reinforced with Carbides for Hammers of Grinding Mills, Global Journal of Engineering Sciences, Vol. 5, Iss. 5, 2020, p. 1-8, DOI: 10.33552/GJES.2020.05.000630, ISSN: 2641-2039.
42. Roxana-Alexandra GHETA¹, **Ionelia VOICULESCU***², Ion Mihai VASILE³, Georgiana CHISIU⁴, STUDY ON THE MICROSTRUCTURAL CHARACTERISTICS OF SOME METALLIC LAYERS PRODUCED USING THE ELECTROCHEMICAL METHOD AND THERMAL SPRAYING, REVISTA DE CHIMIE, VOLUME: 71, YEAR: 2020, ISSUE: 3, P. 166-177, [HTTPS://DOI.ORG/10.37358/RC.20.3.7985](https://doi.org/10.37358/RC.20.3.7985),
43. IONESCU, F., SOLOMON GH., **VOICULESCU I.**, G GÂRLEANU AND D GÂRLEANU Experimental Study Towards WIG Welded Joint. Case Study: Repair by Welding of X2CRNIMO17-12-2 Pipes, IOP CONF. SERIES: MATERIALS SCIENCE AND ENGINEERING1018 (2021) 012018IOP PUBLISHINGDOI:10.1088/1757-899X/1018/1/0120181
44. D. Birsan, G. Simion, **I. Voiculescu**, E. Scutelnicu, Numerical Model Developed for Thermo-Mecahnical Analysis in AlCrFeMnNiHf0.05–ArmoX 500 Steel Welded Joint, December 2021, Annals of Dunarea de Jos University of Galati 32:37-46, DOI: 10.35219/awet.2021.05
45. P Socorro-Perdomo, N Florido-Suarez, **I Voiculescu**, J Mirza-Rosca, Biocompatibility of New High-Entropy Alloys with Non-Cytotoxic Elements, Microscopy and Microanalysis 27 (S1), 1772-1774, 2021.
46. Héctor Guerra-Yáñez, Néstor Rubén Florido-Suárez, **Ionelia Voiculescu**, Julia Claudia Mirza-Rosca, Corrosion behavior of new titanium alloys for medical applications, Materials Today: Proceedings, 18.08.2022. DOI: 10.1016/j.matpr.2022.08.112
47. Santiago Brito-García, Julia Mirza-Rosca, **Ionelia Voiculescu**, Mechanical and Corrosion Behavior of Two High Entropy Alloys (HEA) for Medical Applications, 8 th International Conference on Innovative Research (ICIR EUROINVENT 2022), p. 81, **Conference proceedings**
48. Pedro Pablo Socorro Perdomo, Néstor Rubén Florido Suárez, **Ionelia Voiculescu**, Victor Geanta, Julia Claudia Mirza Rosca, New option for biomaterials of medical prosthesis and implants, International Congress of „Apollonia” University from Iași Edition XXXI 1 - 3 March 2021, Iasi Romania.
49. Nestor Florido-Suarez, Pedro Socorro-Perdomo, **Ionelia Voiculescu**, Julia Mirza-Rosca, Microstructure and Adjustment in Tensile Strength of Al0.8CoCrFeNi Fibers, Microscopy and Microanalysis, 08.2021, Vol. 27, S1, pag. 3386-3388, Ed. Cambridge University Press,
50. **I. Voiculescu**, VA Oprea, IM Vasile, Case Study About Resistance Projection Welding of Aluminized Steel Parts, Annals of “Dunarea de Jos” University of Galati. Fascicle XII, Welding Equipment and Technology, Vol. 32, p. 23-29, 31.12. 2021. DOI: <https://doi.org/10.35219/awet.2021.03>
51. Brito-García, S., Jiménez-Marcos C., Mirza-Rosca, J.C., **Voiculescu, I.**, An Investigation of Elastic Modulus in Zr Doped CoCrFeMoNi HEA by Three-Point Bending, Microscopy and microanalysis : the official journal of Microscopy Society of

America, Microbeam Analysis Society, Microscopical Society of Canada, Open Access, Volume 29, Issue 1, Pages 1527 - 1528/22 July 2023, DOI:10.1093/micmic/ozad067.786, ISSN 14358115

52. Brito-García, S., Jiménez-Marcos, C., Mirza-Rosca, J., **Voiculescu, I.**, Behavior of Ti-doped CoCrFeMoNi High Entropy Alloy, Microscopy and microanalysis : the official journal of Microscopy Society of America, Microbeam Analysis Society, Microscopical Society of Canada, 2023, 29(1), pp. 439–444, DOI:10.1093/micmic/ozad067.208
53. Pulpea, G.B., Stănoiu, M.A., Rotariu, A., **Voiculescu I.**, Moldovan, A., Pulpea, D., MECHANICAL BEHAVIOR ANALYSIS OF THE AUTOMOTIVE PARTS JOINTS MADE THROUGH RESISTANCE SPOT WELDING, UPB Scientific Bulletin, Series D: Mechanical Engineering, 2023, 85(2), pp. 227–240
54. Serban, D., **Voiculescu, I.**, INFLUENCE OF PROCESSING METHODS ON THE SURFACE QUALITY OF INJECTION MOLDED THERMOPLASTIC MATERIALS, UPB Scientific Bulletin, Series D: Mechanical, 2023, 85(2), pp. 211–226
55. Gheorghe Burnei, Victoras GEANTA, **I. Voiculescu**, A New Eclectic Open Surgical Management of Recurrent, Residual, or Neglected Clubfoot in Children: An update on old and new in the field, Medical research archives (Online), Vol 2, 2375-1924, Editură: Knowledge Enterprise Journals Data publicării: 2023-02-28, <http://dx.doi.org/10.18103/mra.v11i2.3609>
56. Miguel Lopez Rios, Viviana Lucero Baldevenites, **I. Voiculescu** and Julia Mirza Rosca, AlCoCrFeNi High Entropy Alloys as Possible Nuclear Materials, Microsc. Microanal. 26 (Suppl 2), 2020 doi:10.1017/S1431927620014555 © Microscopy Society of America, Microscopy and Microanalysis, Vol. 26, Supplement S2, August 2020, pp. 406 – 407
57. Alexandru-Vladuț Oprea, Ion Mihai Vasile, **I. Voiculescu** and Robert Catalin Ciocoiu, The Multipoint Relief Projection Study, PriMera Scientific Engineering, Volume 3 Issue 1 July 2023, DOI: 10.56831/PSEN-03-061, ISSN: 2834-2550

c) Articole *in extenso* în reviste/volumele unor manifestări științifice naționale/internaționale neindexate (Rns)

Reviste

1. **I.VOICULESCU**, V.Geanta, R. Stefanoiu, H.Binchiciu, Cercetari privind sudarea si incarcarea cu laser (Research regarding laser welding and hardfacing), Revista Sudura, XXI-4/2011, Timisoara, ISSN 1843-4738; p. 14-20.
2. A.C.Pavalache, **I.VOICULESCU**, I.M.Vasile, R.Petcovici, Research regarding the characteristics of metal matrix composites layers obtained by laser cladding (Cercetari privind caracteristicile straturilor compozite cu matrice metalica obtinute prin depunere cu laser), Revista Sudura, XXIII – 2 2013, p. 8-12.
3. G. Simion, C. C. Rusu, E. Scutelnicu, **I. Voiculescu**, V.Geantă, STADIUL ACTUAL AL SUDĂRII ALIAJELOR CU ENTROPIE RIDICATĂ, Revista SUDURA, no.3, 2019, p. 5 -15

Volume conferințe – SELECȚIE

1. **VOICULESCU I.**, Geanta V., Binchiciu H., Braharu D., Catuneanu T., Researches regarding the behavior of bi-metal hardfaced agricultural tools, CEEEX Conference, 2008, p. 1-6,
2. **VOICULESCU, I.**, Geanta, V., Stefanoiu, R., Binchiciu, H., Daisa, D.D., Alumina Ceramics Brazed Using Metallic Alloys. International Conference on Innovative Technologies, IN-TECH 2012, Rijeka, Croatia, 2012, p.523-527. ISBN 978-953-6326-77-8
3. **I. VOICULESCU**, V. Geanta, R. Stefanoiu, I.M. Vasile, H. Binchiciu, T. Catuneanu, The Surface Characteristics Changing Using Shot Peening Process, Proc. of 12th International Conference on Technology and Quality for Sustained Development-TQSD 12, Bucharest, Romania, Nov. 5-6, 2012, p. 106-111.
4. **I.VOICULESCU**, V.Geanta, H.Binchiciu, Cercetări privind recondiționarea elementelor active ale componentelor utilajelor agricole (Research regarding the reconditioning of active components of agricultural equipment), Conferința Internațională ASR „TIMA 11”, „Tradiție si arta in construcția echipamentelor energetice”, Timisoara, 2011, p. 1-4. www.isim.ro/tima11, ISSN 1843-4738
5. **I.VOICULESCU**, D.Iovanas, G.Stovpchenko, V.Geanta, H.Binchiciu, C.A.Pavalache, Study on Hard Deposition Obtained by GTAW Welding Process, Proc. of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, 2008, p. 371 – 376. Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158
6. **I.VOICULESCU**, O.Dontu, V.Geanta, D.Besnea, E.Stanciu, Effects of the laser welding parameters on the weld geometry and evaporation, Proc. Of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, 2008, p. 376 – 378. Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158
7. **VOICULESCU, I.**, Geanta, V., Dontu, O., Ganatsios, S., The Heat Treatment Influence on the Welded OT4 Titanium Alloy. 3-rd JOIN Conference „International Conference on Total Welding management in industrial application”, Lappeenranta University of Technology, Lappeenranta, Finland, 2007, p. 303 – 309, ISBN 978-952-214-413-3.

8. **VOICULESCU, I.**, Binchiciu, H., Geantă, V., Binchiciu, A., Research Concerning the New Ecological Brazing Filler Metal Performances for Clean Application, 7-th International Conference on Technology and quality for Sustained Development, TQSD 06, **2006**, p. 331 – 335, AGIR Publishing House, ISBN 973-720-035-7.
9. **VOICULESCU, I.**, Geanta, V., Ștefănoiu, R., Aspects Regarding the Embrittlement of Steels Using the Electro-Charging Method, 6-a CONFERENCIA EUROPEA SOBRE TECNOLOGIAS DE SOLDEO, UNION Y CORTE, 16-as Jornadas Técnicas de Soldadura, EUROJOIN 6, Santiago de Compostela, **2006**, p. 651 – 656, Graficas Rogar, S.A., ISBN 84-934316-0-5.
10. **I. VOICULESCU**, The behaviour of Aluminium matrix composites in welding processes, plenary presentation, 6th European Conference on Welding, Cutting and Joining Technologies, 16as Jornadas Técnicas de Soldadura, EUROJOIN 6 – 16 JTS, **2006**, p. 375-379, Spain, Ed. Graficas Rogar, S.A., ISBN 84-934316-0-5.
11. **I. VOICULESCU**, V. Geanta, R. Ștefănoiu, I.M. Vasile, M. Ionescu, D. Cârțumăreasa, Noi Materiale de Adaos pentru Încărcarea Dura (NEW FILLER MATERIALS FOR HARDFACING), *Conferința ASR "Sudura 2014" - Sibiu, 9-11 aprilie 2014*, p. 215-224;
12. **I. VOICULESCU**, V. Geanta, R. Ștefănoiu, R. I. Petcovici, *Some Aspects Regarding The Surfaces Characteristics Obtained By Mechanical And Chemical Processing*, Aspecte Privind Caracteristicile Suprafetelor Obținute prin Procesare Mecanica si Chimica, Conferinta ASR "Sudura 2009", Dr.Turnu-Severin, 30 sept - 02oct. **2009**, p. 103-113, ISSN 1843-4738
13. E.F. Binchiciu, **I. VOICULESCU**, V. Geanta, SMAW coated electrode for deposition of bronze with 12wt%Sn, Proceedings The 51 International October Conference of Mining and Metallurgy, **2019**, Bor, Serbia, pag. 40-43.
14. Crăciun Ștefan, Gogu Dumitru, **Voiculescu Ionelia**, Comparative analysis of three hardfacing processes using the same filler material, *Sudura*, 2023, Vol 33, Issue 2, p5, **ISSN1453-0384**.
15. Alexandru Vladut Oprea, Robert Catalin Ciocoiu, Ion Mihai Vasile, Cosmin Gabriel Lala, Victor Geanta, **Ionelia Voiculescu**, STUDY ABOUT MULTIPOINT PROJECTION WELDING OF ALUMINIZED STEEL PLATES, VIII International Congress "Engineering, Environment and Materials in Process Industry - EEM Congress" (March 20-23, 2023), 5 pag. Jahorina, Bosnia Hertzegovina
16. Cosmin Gabriel Lala, Adrian-Emanuel Onici, **Ionelia Voiculescu**, Radu Stefanioiu, Victor Geanta, Mg-Zn-Y BIOCOMPATIBLE ALLOYS PRODUCED IN A LEVITATION FURNACE, IoT Technologies - 19th International Scientific Conference on Industrial Systems, October 5-6 2023, pag. 60-65, Novi Sad, Serbia, http://www.stari.ftn.uns.ac.rs/dee/is23/papers/T1.1/T1.1-11_09841.pdf,
17. **Ionelia Voiculescu**; Victor Geanta; Petrica Vizureanu; Stefanescu Elena Violeta; Adrian Emanuel Onici, BRAZING OF MoNbTaTiZrW0.2 HIGH ENTROPY ALLOY USING ECOLOGICALLY COATED RODS, **Proceedings of 23rd International Multidisciplinary Scientific GeoConference SGEM 2023**, DOI:[10.5593/sgem2023V/6.2/s26.64](https://doi.org/10.5593/sgem2023V/6.2/s26.64), Vol. 23, Issue 6.2, ISSN 1314-2704, ISBN [978-619-7603-66-8](https://doi.org/10.5593/sgem2023V/6.2/s26.64),

4^o ARTICOLE/STUDII PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE

a) internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi)

- Vi 83 I. Voiculescu**, V. Geanta, E. Scutelnicu, E. Constantin, C.C. Rusu, L. Mistodie, Influence of the Chemical Composition on the Welding Behavior of API 5L X70 Steel, Macedonian Union of Metallurgists, VII-th International Metallurgical Congress, 9-12 June, 2016.
- Vi 82 V. Geanta, I. Voiculescu**, S. Dimitriu, Alloys from the FeCrAl System Utilized in New Generation Nuclear Power Plant 4R, Macedonian Union of Metallurgists, VII-th International Metallurgical Congress, 9-12 June, 2016.
- Vi 81 I. Voiculescu**, V. Geanta, H. Binchiciu, E.F. Binchiciu, New Alloys from the Cu-P-Si System Used for Brazing, Macedonian Union of Metallurgists, VII-th International Metallurgical Congress, 9-12 June, 2016.
- Vi 80 I. Voiculescu**, V. Geanta, E. Binchiciu, S. Moisa, I.M.Vasile, R. Trusca, STUDY OF DILUTION EFFECTS IN THE JOINT BRAZED WITH Cu-Ag ALLOY FOR STAINLESS STEEL COMPONENTS, The 17th Israel Materials Engineering Conference, February 1-2 2016, Bar-Ilan University Tel Aviv, Israel, poster
- Vi 79 V. Geanta, I. Voiculescu**, A. Jianu, R. Ștefănoiu, Al-rich FeCrAl alloy microalloyed with Zr used in Nuclear Power Plant of 4R Generation, The 17th Israel Materials Engineering Conference, February 1-2 2016, Bar-Ilan University Tel Aviv, Israel, poster
- Vi 78 M. Nahmany, R. Dan, A. Stern, V. Geanta, I. Voiculescu**, AlxCrFeCoNi high entropy alloys: Electron Beam welding- Preliminary results, poster, Welding, Joining and Additive Manufacturing, International Conference 2015, 18-20 Ian. 215, Tel Aviv, Israel;
- Vi 76. L. Vladutoiu, V. Vladut, I. Voiculescu**, M. Matache, O. Radu, S. Biris, I. Voicea, G. Paraschiv, At. Atanasov, M. Usenko, *Increasing agricultural machinery active parts durability by hardening*, Symposium "Actual Tasks on Agricultural Engineering", Opatija, Croatia, 2015, pp. 153-164.

- Vi 75.** Geantă, V., **Voiculescu, I.**, Ștefanioiu, R., Chiriță, I. Obtaining and Characterization of Biocompatible Co-Cr as Cast Alloys. 5-th International Conference "Biomaterials, Tissue Engineering & Medical devices – BiomMedD '2012", Constanța, Romania, 29-th August – 01-st September **2012**, p.175.
- Vi 74.** Geantă, V., **Voiculescu, I.**, Ștefanioiu, R., Rusu, E.R. Stainless Steels with Biocompatible Properties for Medical Devices. 5-th International Conference "Biomaterials, Tissue Engineering & Medical devices – BiomMedD '2012", Constanța, Romania, 29-th August – 01-st September **2012**, p.231.
- Vi 73.** **Voiculescu, I.**, Geanta, V., Ștefanioiu, R., Binchiciu, H., Daisa, D.D., Alumina Ceramics Brazed Using Metallic Alloys. International Conference on Innovative Technologies, IN-TECH 2012, Rijeka, Croatia, 26 - 29.09.**2012**, ISBN 978-953-6326-77-8, p.523-527.
- Vi 72.** Geanta, V., **Voiculescu, I.**, Ștefanioiu, R., Daisa, D.D., Binchiciu, E. Research on the Influence of Alloying Elements on the Microstructure and Microhardness of Biocompatible Cobalt-Chromium Alloys. International Conference on Innovative Technologies, IN-TECH 2012, Rijeka, Croatia, 26 - 29.09.**2012**, ISBN 978-953-6326-77-8, p.559-562.
- Vi 71.** Pencea, I., Sfat, C., Geanta, V., Ștefanioiu, R., **Voiculescu, I.** New Multiconvolutional A approach for Measurement Uncertainty Estimation. Case Study for Vickers Hardness Test. Proceedings of the 4-th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND TECHNOLOGIES – ROMAT 2012, Bucuresti, Romania, 17-19 October, 2012, ISSN 2285-7133, ISSN-L 2285-7133. Editura Printech, **2012**, p.47.
- Vi 70.** **Voiculescu, I.**, Geanta, V., Vasile, I.M., Ștefanioiu, R., Iacob, M. Researches Regarding the Obtaining of the Electrode for Spot Welding. Proceedings of the 4-th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND TECHNOLOGIES – ROMAT 2012, Bucuresti, Romania, 17-19 October, 2012, ISSN 2285-7133, ISSN-L 2285-7133. Editura Printech, **2012**, p.22.
- Vi 69.** Ștefanioiu, R., Geanta, V., **Voiculescu, I.** Studies and Researches on Liquid Steel Temperature Evolution at Inert Gas Injection. Proceedings of the 4-th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND TECHNOLOGIES – ROMAT 2012, Bucuresti, Romania, 17-19 October, 2012, ISSN 2285-7133, ISSN-L 2285-7133. Editura Printech, **2012**, p.30.
- Vi 68.** Geanta, V., **Voiculescu, I.**, Ștefanioiu, R., Binchiciu, H., Negriu, R.M., TAT, P.I. Researches Regarding the Establishment of the Optimal Chemical Composition of the Centrifugal Crushers Retention Sills. Proceedings of the 4-th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND TECHNOLOGIES – ROMAT 2012, Bucuresti, Romania, 17-19 October, 2012, ISSN 2285-7133, ISSN-L 2285-7133. Editura Printech, **2012**, p.26.
- Vi 67.** **I. Voiculescu,** V. Geanta, R. Ștefanioiu, I.M. Vasile, H. Binchiciu, T. Catuneanu, The Surface Characteristics Changing Using Shot Peening Process, Proc. of 12th International Conference on Technology and Quality for Sustained Development-TQSD 12, Bucharest, Romania, Nov. 5-6, **2012**, p. 106-111.
- Vi 66.** A. Pascu, R. Iovanas, D. Iordachescu, **I. Voiculescu,** R. Trusca, Microstructure study of Ni based alloy deposit on AISI 5140 steel, (C41-P-2-53) – Poster – Abstract, 2313, European Congress on Advanced Materials and Process, EUROMAT 2011, 12-15 September **2011**, Montpellier, France.
- Vi 65.** Geanta, V., **Voiculescu, I.**, Ștefanioiu, R., Binchiciu, H., Negriu, R.M. Experimental researches on the obtaining of a new material matrix for the crushing installations retention sill (X12-P-1-15 (2935) – Poster – Abstract, 2935/1/1. European Congress on Advanced Materials and Process, EUROMAT 2011, 12-15 September **2011**, Montpellier, France.
- Vi 64.** **Voiculescu, I.**, Geanta, V., Ștefanioiu, R., Pavalache, A.C., Stanciu, E.M., Daisa, D. Joining of sintered Al₂O₃ ceramics using metallic glass solder (C22-P-2-13 (1865) – Poster – Abstract, 1865/1/1. European Congress on Advanced Materials and Process, EUROMAT 2011, 12-15 September **2011**, Montpellier, France.
- Vi 63.** Jianu, A., Weisenburger, A., Heinzl, A., Fetzer, R., Delgiacco, M., An, W., Mueller, G., **Voiculescu, I.**, Geanta, V. Alumina scale formation on FeCrAl-alloys exposed to 400-600 0C in oxygen containing liquid lead (E11-P-1-12 (1961). – Poster – Abstract, 1961/1/1. European Congress on Advanced Materials and Process, EUROMAT 2011, 12-15 September **2011**, Montpellier, France.
- Vi 62.** **I. Voiculescu,** V. Geanta, R. Ștefanioiu, H. Binchiciu, Cercetari privind sudarea si incarcarea cu laser, Conferinta Internationala ASR – *Probleme actuale ale sudarii in contextul globalizarii economiei*, Chisinau, sept. **2011**, Editura Sudura, Timisoara, ISSN 1843-4738;
- Vi 61.** V. Geanta, **I. Voiculescu,** R. Ștefanioiu, M. Tarcolea, M. Nicolae, H. Binchiciu, Researches in the field of new metallic materials obtaining processes, Conferinta Internationala ASR – *Probleme actuale ale sudarii in contextul globalizarii economiei*, Chisinau, sept. **2011**, Editura Sudura, Timisoara, ISSN 1843-4738;
- Vi 60.** E. Binchiciu, **I. Voiculescu,** Brazarea cu flacara cu randament ridicat, Conferinta Internationala ASR – *Probleme actuale ale sudarii in contextul globalizarii economiei*, Chisinau, sept. **2011**, Editura Sudura, Timisoara, ISSN 1843-4738;
- Vi 59.** **I., Voiculescu,** V., Geantă, R., Ștefanioiu, I., M., Vasile, Contributions Regarding the Obtainment of Copper Matrix Reinforced with Carbide, The ACADEMY OF TECHNICAL SCIENCES IN ROMANIA INTERNATIONAL CONFERENCE " ASTR DAYS – 2011" , the VIth Edition, Timisoara, 22 – 23 September **2011**, publicat pe CD, ISSN 2066-6586.

- Vi 58.** V., Geantă, I., **Voiculescu**, R., Ștefănoiu, A., Jianu, Influence On Chemical Composition Of FeCrAl Alloys On The Microhardness, CONFERINTA INTERNATIONALA BRAMAT, 2011, BRASOV, publicata in METALURGIA INTERNATIONAL vol.XVI SPECIAL ISSUE no. 5 (2011), ISSN 1582-2214, p. 153-156.
Metalurgia International, v16 n5 (2011 04 21): 153-156
- Vi 57.** A–C. Pavalache, I. **Voiculescu**, D. Iordachescu, G. Vasile, E–M. Stanciu, G. Apostol, On Obtaining Of Metal Matrix Composites Layers By Laser Cladding, CONFERINTA INTERNATIONALA BRAMAT, 2011, BRASOV; publicata in METALURGIA INTERNATIONAL vol.XVI SPECIAL ISSUE no. 5 (2011), ISSN 1582-2214, p. 121-124.
- Vi 56.** I.**Voiculescu**, V.Geanta, H.Binchiciu, Cercetări privind recondiționarea elementelor active ale componentelor utilajelor agricole (Research regarding the reconditioning of active components of agricultural equipment), Conferința Internațională ASR „TIMA 11”, „Tradiție și arta în construcția echipamentelor energetice”, Timisoara, 2011, www.isim.ro/tima11, ISSN 1843-4738, ed. Sudura, p. 1-4.
- Vi 55.** A., Binchiciu, I., **Voiculescu**, V., Geanta, E., Binchiciu, H., Binchiciu, High Efficiency Tubular Rods for Brazing, 3rd International Conference „Science and Higher Education in Function of Sustainable Development” SED 2010, Uzice, Serbia, ISBN : 978-86-83573-17-2, p. 3-14 – 3-19;
- Vi 54.** V., Geanta, I., **Voiculescu**, H., Binchiciu, D., Daisa, I.M, Vasile, Increasing the Mechanical Characteristics of the Spot Resistance Welding Electrodes, 3rd International Conference „Science and Higher Education in Function of Sustainable Development” SED 2010, Uzice, Serbia, ISBN : 978-86-83573-17-2, p. 3-37 – 3-42;
- Vi 53.** R., Ciobanu, O., Dontu, D., Besnea, I., Avarvarei, I., **Voiculescu**, Inertial System Used to Analyze Normal and Pathological Human Gait, International Conference on Mechanical and Electrical Engineering, ICMET 2010, Singapore (p. 109-112) , **Print ISBN:** 978-1-4244-8100-2, ISSN 2070-3724;
- Vi 52.** I.V.Simiti, N.Jumate, V.Geanta, I.**Voiculescu**, H.Binchiciu, G.Iepure, Reseaches on the development of materials for electrodes used in welding processes, The 4th International Conference „Innovative technologies for Joining Advanced Materials”, 10-11.06.2010, Timisoara, Romania, p. 294-299, www.isim.ro/tima10.
- Vi 51.** G.Charalampides, O.Dontu, D.Besnea, I.**Voiculescu**, Gh.I. Gheorghe, I.Avarvarei, Manufacturing Parts and Mechatronics Systems by Laser Welding on CNC System, International Conference” 1St International Conference on Innovations, recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products, MECHANITECH’09, Bucharest 2009, Proceedings Supplement Romanian Precision Mechanics, Optics and Mechatronics, ISSN 1584-5982, p. 107-112;
- Vi 50.** C. Delavet, G. Iacobescu, O. Dontu, I. **Voiculescu**, D. Besnea, E.M. Stanciu, A.C. Pavalache, *Cooper-Carbide Composite Layer Obtained By Laser Beam Remelting*, International Conference” 1St International Conference on Innovations, recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products, MECHANITECH’09, Bucharest 2009, Proceedings Supplement Romanian Precision Mechanics, Optics and Mechatronics, ISSN 1584-5982, p.113-118;
- Vi 49.** I.**Voiculescu**, V. Geanta, E. Alexandrescu, A. C. Pavalache, E. M. STANCIU, The characteristics of cooper-carbide composite layer obtained by laser beam remelting, Conf. EUROMAT, 7-10 sept. (2009), Glasgow, Scotland, Poster.
- Vi 48.** I. **Voiculescu**, V. Geanta, R.Stefanoiu, M.I. Vasile, H.Binchiciu, T.Catuneanu, Some Aspects Regarding the Surfaces Characteristics Obtained by Shot Peening Process, Conf. EUROMAT, 7-10 sept. (2009), Glasgow, Scotland, Poster.
- Vi 47.** I. M. Vasile, A. C. Pavalache, E.M. Stanciu, I. **Voiculescu**, *Study Regarding The Indentation Measurement Accuracy Effect On The Microhardness Values*, The Second International Proficiency Testing Conference (PTconf), Sibiu, Romania, 16th – 18th September, 2009, pg. 322-338, ISSN: 2066-737X.
- Vi 46.** A.Binchiciu, I.**Voiculescu**, V.Geanta, H.Binchiciu, *Ecological Silver Based Aloys for Brazed Joint*, A treia Conferinta Internationala “Tehnologii inovative pentru imbinarea materialelor avansate, ISIM, Timisoara, Romania, (2009), ISSN: 1844-4938, pg. 5-8.
- Vi 45.** I.**Voiculescu**, D.Iovanas, G.Stovpchenko, V.Geanta, H.Binchiciu, C.A.Pavalache, *Study on Hard Deposition Obtained by GTAW Welding Process*, Proc. of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, Oct. 30 -31 2008, Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158, pg. 371 – 376.
- Vi 44.** I.**Voiculescu**, O.Dontu, V.Geanta, D.Besnea, E.Stanciu, *Effects of the laser welding parameters on the weld geometry and evaporation*, Proc. Of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, Oct. 30 -31 2008, Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158, pg. 376 – 378.
- Vi 43.** I. **Voiculescu**, D.M., Iovanas, V., Geanta, H., Binchiciu, Study on the Characteristics of Hardfacing Weld Using the Carbide Composite Core Wire, Congress Materials Science and Engineering, MSE 08, Nurnberg 2008, C14-651, Poster
- Vi 42.** I. **Voiculescu**, Victor GEANTA, Horia Binchiciu, Radu Ștefănoiu, Study on Weld Metal Dilution Using the Composite Core Electrode, Congress Materials Science and Engineering, MSE 08, Nurnberg, 2008, C13-382, Poster

- Vi 41. C. Delavet, Gh. Gheorghe, O.Dontu, D.Besnea, **I.Voiculescu**, A.Prodan, Aspects concerning laser welding of stainless steels capsules, International Conference 6th Workshop on European Scientific and Industrial Collaboration on Promoting Advanced Technologies in Manufacturing – WESIC'08, Bucuresti, 25-26 sept. **2008**, pg. 217 – 224.
- Vi 40. N.Jumate, I.Vida-Simiti, V.Geanta, **I.Voiculescu**, H.Binchiciu, *Structure of Anti-Friction Layers Obtained by Thermal Deposition with Bronze Electrodes*, Proceedings of the IIW International Conference „Safety and Reliability of Welded Components in Energy and Processing Industry”, 10 – 11 July, **2008**, Graz, Austria, p. 735 – 737.
- Vi 39. **Voiculescu, I.**, Geanta, V., Stefanoiu, R., Binchiciu, H., I.Vida-Simiti, N.Jumate, Vasiu, R., Study on Hardfaced Wear Resistant Bronze Alloy, Friction, Wear and Wear Protection, International Symposium, **2008**, Ed. Wiley-VCH, ISBN 978-3-527-32366-1, Aachen, Germany, DOI: 10.1002/9783527628513.ch79, p.610- 617.
- Vi 38. **Voiculescu, I.**, Geanta, V., Binchiciu, H., Vasiu, R., Effect of Buffer Layers Composition on the Controlling Weld Metal Dilution and Distorsion. European Congress on Advanced Materials and Processes, EUROMAT 2007, 10 – 13 September **2007**, Nurnberg, Germany, p. 69.
- Vi 37. Dontu, O., Ganatsios, S., **Voiculescu, I.**, Geanta, V., Influence of the Thermal Stress in the Solid Active Laser Medium on the Technological Parameters of the Laser Beam. 11-th JOLAMP Conference „11-th NOLAMP CONFERENCE IN LASER PROCESSING OF MATERIALS”, Lappeenranta University of Technology, Lappeenranta, Finland, August 20 – 22, **2007**, p. 323 – 331, ISBN 978-952-214-412-6.
- Vi 36. **Voiculescu, I.**, Geanta, V., Dontu, O., Ganatsios, S., The Heat Treatment Influence on the Welded OT4 Titanium Alloy. 3-rd JOIN Conference „INTERNATIONAL CONFERENCE ON TOTAL WELDING MANAGEMENT IN INDUSTRIAL APPLICATION”, Lappeenranta University of Technology, Lappeenranta, Finland, August 21 – 24, **2007**, p. 303 – 309, ISBN 978-952-214-413-3.
- Vi 35. Iovănaș, R., **Voiculescu, I.**, Binchiciu, H., Iovănaș, D., Geanta, V., Binchiciu, A., Georapin, C.G., Researches Concerning the Realization of the Active Surfaces Submitted to Complex Wears Using Interchangeable Modulated Elements, Welded on with Hard Batches Special Consumables, 60-th Annual Assembly and International Conference „Welding and Materials – Technical, Economical and ecological Aspects”, International Institute of Welding and Croatian Welding Society, 01 – 08 July 2007, Dubrovnik & Cavtat, Croatia, Welding in the World 51 (SPEC. ISS) (**2007**) p. 631 – 636, ISBN 978-953-7518-00-4. WELDING IN THE WORLD -LONDON- 51, (2007): 631-636
- Vi 34. **Voiculescu, I.**, Geanta, V., Binchiciu, H., Vida-Simiti, I., Jumate, N., Vasiu, R., Study on Tin Bronze Alloy Weld Deposit Using Composite Core Electrode, 60-th Annual Assembly and International Conference „Welding and Materials – Technical, Economical and ecological Aspects”, International Institute of Welding and Croatian Welding Society, 01 – 08 July **2007**, Dubrovnik & Cavtat, Croatia, p. 741 – 748, ISBN 978-953-7518-00-4.
- Vi 33. Geanta, V., **Voiculescu, I.**, Binchiciu, H., Vida-Simiti, I., Jumate, N., Ștefănoiu, R., Steel Structures Hard-Facing Using Composite Core Electrode. 60-th Annual Assembly and International Conference „Welding and Materials – Technical, Economical and ecological Aspects”, International Institute of Welding and Croatian Welding Society, 01 – 08 July, Dubrovnik & Cavtat, Croatia, **2007**, p. 749 – 756, ISBN 978-953-7518-00-4.
- Vi 32. Geanta, V., **Voiculescu, I.**, Ștefănoiu, R., Cioacă, I., Experimental Researches on the Auto-Carburant Processes at Gaseous Fuels Combustion. 3-rd European Combustion Meeting ECM **2007**, Mediteranean Agronomic Institute of Chania, Crete, Greece, 11 – 13 April 2007, Session 20, p. 14-1 – 14-5.
- Vi 31. Binchiciu, H., **Voiculescu, I.**, GEANTĂ, V., Binchiciu, A., Researches Regarding the Secondary Precipitation in Hard Weld Deposition Alloyed with 20 % Cr, 3 % W, and Ti, 7-th International Conference on Technology and quality for Sustained Development, TQSD 06, May, 25 – 27, **2006**, UPB-Bucharest, Romania, p. 335 - 341, AGIR Publishing House, ISBN 973-720-035-7.
- Vi 30. **Voiculescu, I.**, Binchiciu, H., GEANTĂ, V., Binchiciu, A., Research Concerning the New Ecological Brazing Filler Metal Performances for Clean Application, 7-th International Conference on Technology and quality for Sustained Development, TQSD 06, May, 25 – 27, **2006**, UPB-Bucharest, Romania, p. 331 - 335, AGIR Publishing House, ISBN 973-720-035-7.
- Vi 29. **Voiculescu, I.**, Geanta, V., Ștefănoiu, R., Aspects Regarding the Embrittlement of Steels Using the Electro-Charging Method, 6-a CONFERENCIA EUROPEA SOBRE TECNOLOGIAS DE SOLDEO, UNION Y CORTE, 16-as JORNADAS TEHNICAS DE SOLDADURA, EUROJOIN 6, Santiago de Compostela, June, 28 – 30, **2006**, p. 651 – 656, Graficas Rogar, S.A., ISBN 84-934316-0-5.
- Vi 28. **I. Voiculescu**, The behaviour of Aluminium matrix composites in welding processes, *plenary presentation*, 6th European Conference on Welding, Cutting and Joining Technologies, 16^{as} Jornadas Tecnicas de Soldadura, EUROJOIN 6 – 16 JTS, 26 – 29 June **2006**, Spain, pag. 375-379, Ed. Graficas Rogar, S.A., ISBN 84-934316-0-5.
- Vi 27. R.Stefanoiu, V.Geanta, **I.Voiculescu**, *The Macroscopic Characterization by Modelling of the Plume Zone Created Inside the {Inert Gas}- [Metallic Melt] Bi-Phase System*, European Congress on Advanced Materials and Processes, 5-8 Sept. **2005**, Prague, Czech Republic, Ref. No. E52-399.
- Vi 26. Ștefănoiu, R., GEANTĂ, V., **Voiculescu, I.**, Modelling of the Solid-Liquid Mass Transfer in Gas Stirred Systems. EUROMAT 2003, Lausanne, Switzerland, **2003**, p. 56.

- Vi 25. **Voiculescu, I.**, Geantă, V., *The electric field effect on the hydrogen diffusion in mild steel*. 7-th European Conference on Advanced Materials and Processes EUROMAT 2001, Rimini, Italy, June 10 – 14, **2001**, p. 175.
- Vi 24. Geantă, V., Ștefănoiu, R., **Voiculescu, I.**, *The Cinematic Viscosity Determination of Some Ferrous Metallurgical Melts from the Fe-Cr-C Systems*, 7-th European Conference on Advanced Materials and Processes EUROMAT 2001, Rimini, Italy, June 10 – 14, **2001**, p. 417.
- Vi 23. **I.Voiculescu**, V.Geantă, R. Stoenescu, *Friction welding of aluminium matrix composites*, European Conference "Junior Euromat 2000, 28August – 1 Sept. **2000**, Lausanne, Switzerland, p388-389.
- Vi 22. Ștefănoiu, R., Geantă, V., **Tonoiu, I.**, Dobrescu, C. The Influence of Particles' Residence into the Metal Melt on the Injection Process Efficiency. European Conference Junior Euromat 2000, August 28 – September 1, **2000**, Lausanne, Switzerland, p. 386 – 387.
- Vi 21. Geantă, V., Ștefănoiu, R., **Tonoiu, I.** *Studies and Experimental Researches Regarding the Mass Transfer Phenomena on the Alloying by Injection Processes using Pulverulent Materials*, International Conference Mass and Charge Transport in Inorganic Materials, Venice, Italy, May 28 – June 2, **2000**, p.12;
- Vi 20. **Tonoiu, I.** Geantă, V., Ștefănoiu, R. The electric field effect on the hydrogen diffusion in mild steel, International Conference „Mass and Charge Transport in Inorganic Materials”, Venice – Lido di Jesolo, Italy, May 28 – June 2, **2000**, p. 5.
- Vi 19. R. Ștefănoiu, V. Geantă, **Ionelia Tonoiu**, C.Dobrescu, *The influence of the particles' residence time into the metal melt on the injection process efficiency*, European Conference "Junior Euromat **2000**, 28August – 1 Sept. 2000, Lausanne, Switzerland, p.386- 387.
- Vi 18. **Ionelia Tonoiu**, Raluca Stoenescu, Constantin Ion Rusu, Carmen Bunescu, Study on heat-treated microstructures of gas tungsten arc welding of pseudo-alpha titanium alloy, International Conference EUROMAT'99, Munchen, **1999**, 6 pag.
- Vi 17. **Ionelia Tonoiu**, Doru Adrian Goga, Raluca Stoenescu, *Metallurgical aspects occurring in thin bimetal samples welded by explosion*, International Conference EUROMAT'99, Microstructural Investigation and Analysis, Vol. 4, Munchen, **1999**, pp 128-133, editor Wiley-VCH, Weinheim, 2000, ISBN 3-527-30121-6.
- Vi 16. **I.Tonoiu**, V.Geantă, R.Stoenescu, R.Ștefănoiu, F.D.Dănilă, *Researches concerning the change of superficial properties of aluminum-graphite composites by electron beam remelting*, First International Conference "THE" Coatings in Manufacturing Engineering, Thessaloniki, Greece, Oct 14-15, **1999**, ISBN 960-431-553-6, p.455-460.
- Vi 15. **I.Tonoiu**, V.Geantă, R.Ștefănoiu. F. Dumitrescu Dănilă, *Some Aspects Regarding the Ceramic Surface Metallization*, ADVANCES IN SCIENCE AND TECHNOLOGY, Vol. 15, p. 1035-1042, Ceramics, (2000).
- Vi 14. Geantă, V., N. Constantin, R., **Tonoiu, I.**, Ștefănoiu, R. Experimental Researches on the Determination of Beginning Temperature of Carbon Oxidation Reaction in Metallurgical Melts from Fe - Cr - Me - O Systems. 9-th International Metallurgy and Materials Congress, 11 - 15 iunie **1997**, Istanbul, Türkiye, vol. I, ISSN 1301 – 3637, p. 91 – 96.
- Vi 13. **Tonoiu, I.**, Geantă, V., Șaban, R., Ștefănoiu, R., Pascu, I. SEM Analysis of Hydrogenated Steels Surfaces. 5-th European Conference on Advanced Materials and Processes and Applications EUROMAT '97, 21-23 April **1997**, Maastricht, Netherlands, Vol. 4 – Materials, Functionality & Design, (ISBN 90-803513-4-2). p. 65 – 69.
- Vi 12. **I.Tonoiu**, *The Effect of the Heat Treatment on the Welded Aluminium Composite SiC(p)*, "Junior EUROMAT'96", European Conference, 26 - 30 August, **1996**, pag. 401, Lausanne, Switzerland;
- Vi 11. **Tonoiu, I.**, Geantă, V., Micloși, V., Daisa, D. A Method to Estimate the Resistance to Hydrogen Penetration in Steel Weldments. Conference on Materials and Nuclear Power, 21 - 23 October **1996**, Bournemouth, UK, **Published by Institute of Materials, Basingstoke Press, Basingstoke, England, ISBN 186-125-020-7**, p. 343 – 350.
- Vi 10. **I.Tonoiu**, P.Moldovan, I.Severin and I.Gheorghe, *Tribological Properties of an Aluminium Matrix Composite/Graphite*, 10th International Colloquium "Tribology – Solving Friction and Wear Problems", 09 - 11 Jan.**1996**, Vol. 1, pag.553-559, Technische Akademie Esslingen, Germany.
- Vi 9. I.Severin, Gh.Zgura, **I.Tonoiu**, R.Severin, *Deformation strength evaluation on the aluminium matrix Composites*, International Conference "EUROMAT'95", 25-28 Sept. **1995**, Vol. III, pag.435-438 Venice-Padua, Italy.
- Vi 8. **I.Tonoiu**, P.Moldovan, I.Severin, A.Palade, *Welding by friction of an aluminium-graphite MMCs*, International Conference "EUROMAT'95", 25-28 Sept. **1995**, Vol. III, pag.447-450, Venice-Padua, Italy.
- Vi 7. Severin, I., **Tonoiu, I.**, Moldovan, P., Ghica, V., The Role of the Heat Treatment on the Microstructure and Microhardness of the Particulate TiC Reinforced Al-Matrix Composites, International Metallurgical Symposium, Vol. 4, p. 179-186, Metal'94, Ostrava, (1994), editor Tanger Steel Ltd.
- Vi 6. I.Severin, **I.Tonoiu**, P.Moldovan, *Mechanical Behavior of Aluminium Matrix Composites Reinforced With Ceramic Particles*, "Junior EUROMAT'94", 30 August, **1994**, pag. 281 Lausanne, Switzerland
- Vi 5. I.Severin, **I.Tonoiu**, Gh. Zgură, *Precision Machining of Particle Reinforced Aluminium Matrix Composites*, "Junior EUROMAT'94", 30 August, **1994**, pag. 279, Lausanne, Switzerland.

- Vi 4. **I.Tonoiu**, L.Antofe, P.Moldovan, *Effect of heat treatment on the weldability of Al-Al₂O₃ Composites*, (plenary session presentation), "Junior EUROMAT'94", 30 August, **1994**, pag. 77 Lausanne, Switzerland.
- Vi 3. **I.Tonoiu**, V.Miclosi, L.Antofe, "The study of hydrogen diffusion by the cathodic charge technique Junior EUROMAT'94", 30 August, **1994**, pag. 155, Lausanne, Switzerland.
- Vi 2. P.Moldovan, N.Panait, D.Condeiu, **I.Tonoiu**, *Structure-property relations of an aluminium alloy ceramic particle composite*, "15Th. Conference on Materials Testing in Metallurgy", Mai-Iunie 1994, pag. 959-962, Balaton-Hungary.
- Vi 1. P.Moldovan, **I.Tonoiu**, D.Condeiu, L.Antofe, "Characterization of the microstructure in aluminium-graphite particulate composites by electrical resistivity, 15Th. Conference on Materials Testing in Metallurgy" Mai-Iunie **1994**, pag. 963-967, Balaton-Hungary.

b) Conferințe Naționale, inclusiv cotate ISI sau indexate în baze de date internaționale (Vn)

- Vn 52. Vlăduț D.I., David L., Marin E., Biriș S.Ș.T., **Voiculescu I.**, Maican E., Vlăduț V., Ungureanu N., Vlăduțoiu L., Fechete L., Croitoru Ș.T., Boruz S., Vocea I., Matache M., Bungescu S, Research on the development of a conservative technology, using optimized active bodies for soil tillage, *Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series)*Vol. XLV **2015**, pp. 247-252;
- Vn 51. H., Binchiciu, I., **Voiculescu**, E., Binchiciu, D., Tihonov Tanasache, Aspecte privind reconditionarea camasilor de concasor din otel turnat, *Conferința ASR "Sudura 2014" - Sibiu, 9-11 aprilie 2014*, p.239-244.
- Vn 50. **I.Voiculescu**, V. Geanta*, R. Ștefănoiu*, I.M. Vasile*, M. Ionescu**, D. Cârțumăreasa, Noi Materiale de Adaos pentru Incarcarea Dura (NEW FILLER MATERIALS FOR HARDFACING), *Conferința ASR "Sudura 2014" - Sibiu, 9-11 aprilie 2014*, p. 215-224;
- Vn. 49. **I. Voiculescu**, I., Vasile, I.M., Geantă, V., Binchiciu, H., Trușcă, R. Efectul temperaturii de funcționare asupra caracteristicilor depunerilor dure efectuate pe probe de oțel microaliat. Conferința ASR "SUDURA 2013" 17 - 19 aprilie **2013**, București.
- Vn 48. R. Iovănaș, H., Binchiciu, D., M., Iovănaș, **I., Voiculescu**, V., Geantă, A., Binchiciu, L., Capornită, R., F., Iovănaș, Contribuții privind Realizarea unor Materiale de Adaos Novative pentru Operații de Reconditionare, Conferința ASR: Sudura **2011**, p.140-150;
- Vn47. I. M. Vasile, **I. Voiculescu**, V. Geanta, R. Ștefănoiu, *Modular element for dies obtained by build –up welding*, Obținerea unui element modulat pentru matrite incarcate prin sudare, Conferinta ASR "Sudura 2009", Dr.Turnu-Severin, 30 sept - 02oct. **2009**, ISSN 1843-4738, p.56-63;
- Vn46. **I. Voiculescu**, V. Geanta, R. Ștefănoiu, R. I. Petcovici, *Some Aspects Regarding The Surfaces Characteristics Obtained By Mechanical And Chemical Processing*, Aspecte Privind Caracteristicile Suprafetelor Obținute prin Procesare Mecanica Si Chimica, Conferinta ASR "Sudura 2009", Dr.Turnu-Severin, 30 sept - 02oct. **2009**, ISSN 1843-4738, p. 103-113;
- Vn45. H. Binchiciu, **I. Voiculescu**, A. Binchiciu, E. Binchiciu, *Aspects Regarding Some Bazed Joint Exposed To Severe Conditions*, Aspecte privind realizarea unor îmbinări brazate intens solicitate, Conferinta ASR "Sudura 2009", Dr.Turnu-Severin, 30 sept - 02oct. **2009**, ISSN 1843-4738, p. 131-136;
- Vn44. V. Geantă, **I. Voiculescu**, A. Binchiciu, E. Binchiciu, H. Binchiciu, *Aspects Regarding The Realizing Of The Heterogenous Joining Between A Manganese And 30%Cr Alloyed Steels*, Aspecte privind realizarea unei imbinari Eeterogene intre un oțel manganos si un oțel aliat cu 30%Cr, Conferinta ASR "Sudura **2009**", Dr.Turnu-Severin, 30 sept - 02oct. 2009, ISSN 1843-4738, p.148-154;
- Vn43. **I.Voiculescu**, V.Geanta, H.Binchiciu, D.Braharu, T.Catuneanu, *Researches regarding the behavior of bi-metal hardfaced agricultural tools*, Conference EXCELLENCE RESEARCH, A way of innovation, Vol. III, Brasov, **2008**, Editura Tehnică, ISSN 1844 - 7090, p. 298-1÷298-6, plenary presentation.
- Vn42. V.Dina, V.Geanta, R.Ștefănoiu, **I.Voiculescu**, I.Cioaca, C.Posoiu, *Obtaining method of thermal regime in the chamber furnace for burning of refractory ceramic materials*, Conference EXCELLENCE RESEARCH, A way o innovation, Vol. III, Brasov, 2008, Editura Tehnică, ISSN 1844 - 7090,p. 299-1 ÷ 299-6.
- Vn41. Moldovan, L., Lungu, D., Gnant, F., Geantă, V., **Voiculescu, I.**, *Obținerea prin metalurgia pulberilor a electrozilor din Cu-Sn utilizați la depunerile antifricțiune*. A VII-a Conferință națională multidisciplinară – cu participare internațională, „Profesorul Dorin PAVEL – fondatorul hidroenergeticii românești, Sebeș, România, **2007**, p. 189-194.
- Vn40. Lungu, D., Gnant, F., Vasii, R., Geantă, V., **Voiculescu, I.**, Binchiciu, H., Cercetări privind obținerea electrozilor înveliți tubulari cu miez compozit din carbură de wolfram, A VII-a Conferință națională multidisciplinară – cu participare internațională, „Profesorul Dorin PAVEL – fondatorul hidroenergeticii românești, Sebeș, România, **2007**, p. 195-200.
- Vn39. **Voiculescu, I.**, Iovănaș, R., Geantă, V., Binchiciu, H., Ștefănoiu, R., Rontescu, C., New Consumable for Hard Deposit with Carbides Content, Conference EXCELLENCE RESEARCH– A Way to ERA, Brașov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 116.

- Vn38.** Dumitru, C., Gmandt, F., Binchiciu, H., Nistor, P., Geantă, V., **Voiculescu, I.**, Cioacă, I., Culture material – Biomass – used as fuel in installations adjusted for Rural Environment, Conference EXCELLENCE RESEARCH – A Way to ERA, Braşov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 114.
- Vn37.** Geantă, V., **Voiculescu, I.**, Binchiciu, H., Vida-Simiti, I., Jumate, N., VasIU, R., Lungu, D., Study on Weld Metal Characteristics using the New Composite Core Electrode. Conference EXCELLENCE RESEARCH – A Way to ERA, Braşov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 99.
- Vn36.** **Voiculescu, I.**, Geantă, V., Binchiciu, H., Vida-Simiti, I., Jumate, N., VasIU, R., Lungu, D., New Consumable for Tin Alloy Weld Deposit with 12 – 15 % Sn Content. Conference EXCELLENCE RESEARCH – A Way to ERA, Braşov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 98.
- Vn35.** Geantă, V., Dina, V., **Voiculescu, I.**, Stefanoiu, R., Cioacă, I., Experimental Researches on the Gas – Fuels Combustion in Self – Carburizing Processes, Conference EXCELLENCE RESEARCH – A Way to ERA, Braşov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 77.
- Vn34.** Dina, V., Geantă, V., Stefanoiu, R., **Voiculescu, I.**, Cioacă, I., Decreasing of Fuel Consumption and Toxic Emissions by Burning of Natural Gas with Self – Carburizing, Conference EXCELLENCE RESEARCH – A Way to ERA, Braşov, Romania, 24 – 26 October, Editura Tehnică, **2007**, ISSN 1843 - 5904, L. 77.
- Vn33.** Vasilescu, M., Geantă, V., **Voiculescu, I.**, Binchiciu, H. Activating Methods for Abrasive Particle Inside the Jet to Processing with abrasive Jet in Suspension. The 13-th International Conference of Nonconventional Technologies, ICNcT 2007, Iaşi, Romania, 17 – 18 mai **2007**, publicat în Revista de Tehnologii Neconvenţionale, nr. 3, 2007, p.114 – 117, ISSN 1454 – 3087.
- Vn32.** Iovănaş, R., **Voiculescu, I.**, Geantă, V., Binchiciu, H., Iovănaş, D.M., Ştefănoiu, R., Dozescu, S., Researches Concerning the Obtaining of New Filler Materials with Amorphous Structure for Brazing Adressed to special Industrial Applications of Copper and its Alloys. International Conference on Material Science and Engineering, BRAMAT 2007, Braşov, Romania, 22 – 24 February **2007**, L-O3.13, p. 193, p. 61 – 66, ISSN 1223 – 9631.
- Vn31.** **Voiculescu, I.**, Geantă, V., Jumate, N., Vida-Simiti, I., Binchiciu, H., Research Regarding the Obtaining of Wear Resistant deposits from Tin Bronze Alloys. International Conference on Material Science and Engineering, BRAMAT 2007, Braşov, Romania, 22 – 24 February **2007**, L-O3.11, p. 191, p. 55 – 60, ISSN 1223 – 9631.
- Vn30.** **Voiculescu, I.**, Iovănaş, R., I., Binchiciu, H. Geantă, V., Iovănaş, D.M., Ştefănoiu, R., Research on the Characterisation of Hardfacing Electrodes from Earthworking Machineries, International Conference on Material Science and Engineering, BRAMAT 2007, Braşov, Romania, 22 – 24 February **2007**, L-O3.02, p. 182, p. 7 – 12, ISSN 1223 – 9631.
- Vn29.** Dumitru, C., Gmandt, F., Angyal, T., Binchiciu, H., Nistor, P., Geanta, V., **Voiculescu, I.**, Cioaca, I., Utilizarea materialelor de cultură – biomasa- drept combustibil pentru producerea energiei termice în instalaţii adaptate pentru mediul rural, Conferinţa – CERCETAREA DE EXCELENŢĂ. PREMISĂ FAVORABILĂ PENTRU DEZVOLTAREA SPAŢIULUI ROMÂNESC DE CERCETARE, Vol. 2, Editura Printech, **2006**, ISBN (13) 978-718-552-5, 22.10.2006, pag. L2-8;
- Vn28.** **Voiculescu, I.**, Binchiciu, H., Geanta, V., Binchiciu, A., Aspecte privind durificarea secundară a depunerilor dure cu electrod învelit - Conferinţa – CERCETAREA DE EXCELENŢĂ. PREMISĂ FAVORABILĂ PENTRU DEZVOLTAREA SPAŢIULUI ROMÂNESC DE CERCETARE, Vol. 1, Editura Printech, 2006, ISBN (10) 973-718-552-8, 22-24.10.2006, pag. L1-31
- Vn27.** Vida-Simiti, I., Jumate, N., Geanta, V., **Voiculescu, I.**, Binchiciu, H., Lungu, D., Studii preliminare privind fabricarea electrozilor destinaţi placării de straturi compozite - Conferinţa – CERCETAREA DE EXCELENŢĂ. PREMISĂ FAVORABILĂ PENTRU DEZVOLTAREA SPAŢIULUI ROMÂNESC DE CERCETARE, Vol. 1, Editura Printech, 2006, ISBN (10) 973-718-552-8, 22-24.10.2006, pag. L1-30;
- Vn26.** Vida-Simiti, I., Jumate, N., Geanta, V., **Voiculescu, I.**, Binchiciu, H., Chende, R.M., Hagea, I. Studii preliminare asupra fabricării electrozilor din bronz cu staniu destinaţi placării straturilor antifricţiune – Conferinţa – CERCETAREA DE EXCELENŢĂ. PREMISĂ FAVORABILĂ PENTRU DEZVOLTAREA SPAŢIULUI ROMÂNESC DE CERCETARE, Vol. 1, Editura Printech, **2006**, ISBN (10) 973-718-552-8, 22-24.10.2006, pag. L1-29.
- Vn23.** C.Rontescu, **Ionelia Voiculescu**, Analiza influenţei procesului de debitare termica asupra rosturilor imbinarilor sudate, Conf. ASR 28-30 Sept. **2005**, Editura Sudura, Timisoara, pag. 365-374.
- Vn22.** **Ionelia Voiculescu**, L.Gadea, C.Rontescu, D.Cicic, Program computerizat pentru analiza macrografica a sudurilor, Conf. ASR 28-30 Sept. **2005**, Editura Sudura, Timisoara, pag. 231-239;
- Vn21.** M.Topologeanu, M.Radu, M.Stoia-Djeska, St. Velicu, C.Dogariu, **I.Voiculescu**, L.Popescu Studies regarding the behavior of the welded structures of powered hang-gliders, Studii privind comportarea structurilor sudate ale motodeltapanelor - Conferinţa ASR - Sudura **2004**, Constanta, pag. 319-327.
- Vn20.** **Ionelia Voiculescu**, Unele aspecte privind sudarea materialelor compozite cu matrice din aluminiu - Some aspects regarding aluminium matrix composites welding - Conferinţa ASR - Sudura **2004**, Constanta, pag. 225-233.

- Vn19. Ionelia Voiculescu**, The influence of the electron - beam remelting process on the superficial properties of aluminum – graphite composites, Conferința Națională de Metalurgie și Știința Materialelor/National Conference of Metallurgy and Materials Science CNMSM 2001, București 20-21 Sept. **2001**, p. 645-649.
- Vn18. Ionelia Voiculescu**, Raluca Stoenescu, *Aspecte microstructurale la sudarea prin frecare a compozitelor cu matrice din aluminiu/Friction welding microstructures of aluminium matrix composites*, Conferința științifică națională aniversară “125 ani de Învățământ Metalurgic Românesc - TRSPM 2000, 50 ani de Cercetare Metalurgică Românească – CNM2000 ICEM”, 26-27 Octombrie **2000**, București, p.536-541.
- Vn17. Ionelia Voiculescu**, *Aspecte privind electromigrarea hidrogenului în oțeluri/Some aspects regarding the electromigration of hydrogen in steel*, Conferința științifică națională aniversară “125 ani de Învățământ Metalurgic Românesc - TRSPM 2000, 50 ani de Cercetare Metalurgică Românească – CNM2000 ICEM”, 26-27 Octombrie **2000**, București, p.259-264.
- Vn16.** V.Geantă, Dana Daisa, **I.Tonoiu**, R.Ștefănoiu, *Experimental researches regarding the influence of slags chemical composition at ESR process*, Conferința ACTA Universitatis Cibinensis, Vol XXXIV, Seria Tehnică A. Știința și Ingineria Materialelor, Universitatea “Lucian Blaga” Sibiu, International Conference – BEYOND 2000: Engineering Research Strategies , 25 – 26 noiembrie, **1999**, ISSN 1221-4949, p. 99-102
- Vn15. I.Tonoiu**, V.Geantă, V.Micloși, *Unele Aspecte Privind Dehidrogenarea în Câmp Electric a Oțelurilor pentru Structuri Sudate*, Conferința Nationala “Noutăți în sudarea structurilor metalice”, Buzău, 25-27 sept. **1999**, p.41-50.
- Vn14. I.Tonoiu**, P.Moldovan, R.Stoenescu, C.I.Rusu, *Modificarea Proprietăților și Structurii Aliajelor cu Bază Nichel prin Prelucrare Superficială cu Fascicul de Electroni*, Conferința Științifică TEHNOMUS, Ediția a X-a, 28-29 Mai, **1999**, Universitatea “Ștefan cel Mare” Suceava, p.34-41.
- Vn13. I.Tonoiu**, V.Micloși, *Influența Încărcării Catodice cu Hidrogen asupra Comportării la Tracțiune a Oțelurilor*, Conferința "60 de Ani de Cooperare Științifică în Domeniul Sudării", 19-21 Nov.**1997**, Timisoara, pag. 237-243.
- Vn12. I.Tonoiu**, I.Severin, P.Moldovan, *Heat Treatment Influence on the Wear Behavior of the AlSi/Graphite Composite Material, "ROCAM'95"*, Romanian Conference on Advanced Materials, 13-15 Nov.**1995**, Academia Română, (București), pag. II.1.
- Vn11. I.Tonoiu**, I.Severin, A.Palade, C.Golovanov, *Structural changes evaluation in Al-Si matrix composites using the electric conductivity measurement*, 25 Years Jubilee Conference-"Achievements and Perspectives Concerning Welding and Material Testing", 24-26 Mai **1995** (Timisoara).
- Vn10. I.Tonoiu**, I.Severin, P.Moldovan, *The effect of heat treatment on the weldability of Al-Gr composite*, First International Congress in Materials Science and Engineering, 14-16 Nov. **1994**, Tomul XL, secțiuneaIX pag. 582-586 Iasi, Romania.
- Vn9.** P.Moldovan, **I.Tonoiu**, I.Severin, *Characterization of physical, mechanical and tribological properties of an Al-Si/Gr(p) Composite*,First International Congress in Materials Science and Engineering, 14-16 Nov. **1994**, Tomul XL, secțiuneaIX, pag. 173-180, Iasi, Romania.
- Vn8.** Gh.Zgura, I.Severin, **I.Tonoiu**, *Machining of particulate composites materials with aluminium matrix*, Conferința Internațională "Tehnologii, Calitate, Mașini, Materiale", Mai **1994**, București, pag. 311-315.
- Vn7.** V.Micloși, V.Popovici, **I.Tonoiu**, *Stand pentru măsurarea tensiunilor reziduale în îmbinările sudate*, Conferința Tehnologii Moderne de Sudare, Oct. **1993** (Galați) pag. 111 - 117.
- Vn6.** C.Munteanu, I.Rusu, **I.Tonoiu**, S.Susan, *Cercetări asupra texturii materialelor feromagnetice laminate*, Conferința “Tehnologii moderne de prelucrare la cald. 11-13 Noiembrie **1993**”, pag. 50-56 (Bacău).
- Vn5.** C.Ispas, A.Grobnic, G.M.Dumitru, **I.Tonoiu**, Gh.Marina, *The computer design of machine-tools pillars*, 18-20 Sept.**1991**, International Scientific Seminar "Modern Mechanical Design", București, pag. 376-381.
- Vn4.** Gh. Solomon, **I.Tonoiu**, A.Grobnic, Gh. Marina, *The design of torch welding TIG with magnetic pulsation of the liquid metal bath and the study of axial magnetic pulsation influence on the cracking tendency at high temperature*, 18-20 Sept.**1991**, International Scientific Seminar "Modern Mechanical Design", București, pag.200-206 .
- Vn3.** Gh.Marina, Gh.Solomon, **I.Tonoiu**, *Optimal welding technology design for nichel based Alloys*, 18-20 Sept.**1991**, International Scientific Seminar "Modern Mechanical Design, București, pag. 171-176;
- Vn2.** Gh.Marina, **I.Tonoiu**, A.Grobnic, *Aluminium based new materials with tribologic properties*, 18-20 Sept.**1991**, International Scientific Seminar "Modern Mechanical Design", București, pag. 96-99;
- Vn1.** **I.Tonoiu**, Gh. Solomon, Gh.Marina, A.Grobnic *A method to determine the cracking tendency at room temperature*, 18-20 Sept.**1991**, International Scientific Seminar "Modern Mechanical Design", București, pag. 99- 112;

5^o BREVETE DE INVENȚIE (B)

- B 26. GEANTA V; **VOICULESCU I**; STEFANOIU R; FUGARU V; STANCIU E; PASCU A; POSTOLACHE C; IOAN M, Metallic material for use in nuclear power plants, comprises iron, chromium, aluminum, zirconium, yttrium, hafnium and titanium, Derwent Primary Accession Number 2019-45986U, Indexed 2023-08-10, [RO133180\(A2\)RO133180\(B1\)](#), International Patent Classification C22C-038/06containing aluminium [2]C22C-038/26with niobium or tantalum [2]C22C-038/50with titanium or zirconium [2]B23K-026/00Working by laser beam, e.g. welding, cutting, boring INFO 2493 [2,3]C22C-

Ilionela

- 038/18containing chromium [2], Derwent Class Code(s) M27 (Ferrous alloys - including alloy production and composition (C22C). Derwent Manual Code(s) M27-A04M27-A04AM27-A04CM27-A04RM27-A04TM27-A04XM27-A04Z
- B 25. ANTONIAC V I; RAU D; SEMENESCU A; DAWOD N; GEANTA V; **VOICULESCU I**; MATES I M; SOLEA M R, Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic dental prostheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver and is obtained by elaboration in electric arc furnace, Derwent Primary Accession Number 2020-492783, Indexed 2023-08-10, [RO134132\(A0\)](#), [RO134132\(B1\)](#) International Patent Classification C22C-001/02by meltingC22C-038/02containing silicon [2]C22C-038/10containing cobalt [2] Derwent Class Code(s) M26 (Non-ferrous alloys - including alloy production and composition (C22C).)D21 (Preparations for dental or toilet purposes - including filling alloys, compositions for dentures or dental impressions, anti-caries chewing gum, plaque disclosing compositions, toothpastes, cosmetics, shampoos, topical anti-sunburn compositions and toilet soaps (A61K).)X25 (Industrial Electric Equipment) Derwent Manual Code(s) M26-B08M26-B08CM26-B08NM26-B08SM26-B08ZD09-C01X25-C02X25-Q01
- B 24. ANTONIAC V I; RAU D; SEMENESCU A; DAWOD N; GEANTA V; **VOICULESCU I**; MATES I M; SOLEA M R, Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver and prepared by elaboration in electric arc furnace, Derwent Primary Accession Number 2020-492784, Indexed 2023-08-10, [RO134131\(A0\)](#)[RO134131\(B1\)](#), International Patent Classification C22C-001/02by meltingC22C-038/02containing silicon [2]C22C-038/10containing cobalt [2] Derwent Class Code(s) M26 (Non-ferrous alloys - including alloy production and composition (C22C).)D21 (Preparations for dental or toilet purposes - including filling alloys, compositions for dentures or dental impressions, anti-caries chewing gum, plaque disclosing compositions, toothpastes, cosmetics, shampoos, topical anti-sunburn compositions and toilet soaps (A61K).)X25 (Industrial Electric Equipment) Derwent Manual Code(s) M26-BM26-B00CM26-B00MM26-B00NM26-B00SM26-B00ZM26-B08M26-B08CM26-B08MM26-B08NM26-B08SM26-B08ZD09-C01X25-C02X25-Q01
- B 23. GEANTA V; **VOICULESCU I**; KELEMEN G; MOLNAR G; KELEMEN H; HORVATH L; OPREA S, *Installation for complex metallurgical processing by heating with induction currents*, Derwent Primary Accession Number 2020-C11657, Indexed 2023-08-10, [RO133993\(A2\)](#)[RO133993\(B1\)](#), International Patent Classification F27D-011/06Induction heating, i.e. in which the material being heated, or its container or elements embodied therein, form the secondary of a transformerF27D-007/06Forming or maintaining special atmospheres or vacuum within heating chambers INFO 9363H05B-006/02Induction heating [3] Derwent Class Code(s) Q77 (Furnaces, kilns, ovens, retorts (F27))X25 (Industrial Electric Equipment) Derwent Manual Code(s) X25-B02A
- B 22. GEANTA V; **VOICULESCU I**; MITRICA D; ROTARIU A, High-entropy alloy for manufacture of penetrators, comprises two alloys of hafnium-molybdenum-nickel-niobium-tantalum-tungsten multielement system containing hafnium, molybdenum, nickel, tantalum and tungsten, and has preset density, Derwent Primary Accession Number 2021-62945N, Indexed 2023-08-10, [RO134976\(A2\)](#), International Patent Classification C22C-001/02by meltingC22C-038/18containing chromium [2], Derwent Class Code(s), M26 (Non-ferrous alloys - including alloy production and composition (C22C). Derwent Manual Code(s) M26-A01M26-A01HM26-A01MM26-A01NM26-A01TM26-BM26-B00HM26-B00MM26-B00NM26-B00T
- B 21. GEANTA V; **VOICULESCU I**; STEFANOIU R; BINCHICIU H; VIZUREANU P; KELEMEN H; CODESCU M M; SANDU A V; BALTATU M S; MARINESCU V E, High-entropy alloy for manufacturing orthopedic implants, comprises iron-molybdenum-tantalum-titanium-zirconium metallic system comprising iron, molybdenum, tantalum, titanium and zirconium, and has preset density and melting temperature, Derwent Primary Accession Number 2021-629456, Indexed 2023-08-10, [RO134978\(A2\)](#), International Patent Classification C22C-033/04by melting [2]C22C-038/22with molybdenum or tungsten [2], Derwent Class Code(s) M26 (Non-ferrous alloys - including alloy production and composition (C22C).)D22 (Sterilising, bandages, dressing and skin protection agents - including sterilising agents (other than for food), sutures, plaster casts, bioactive prostheses, contact lenses, diapers, animal litter, timber, preservatives, disinfectants, bactericidal detergents, deodorants, insect repellent compounds, moth proofers, sheep dip (A61L), Derwent Manual Code(s) M26-AM26-A00JM26-A00MM26-A00TM26-A00ZM26-BM26-B00JM26-B00MM26-**B00TM26-B00ZD09-C01D**
- B 20. GEANTA V; **VOICULESCU I**; KELEMEN G; BINCHICIU E F, *Plant used for manufacturing thin metal strips, comprises metal alloys, with possibility of obtaining strips both in strip system and in composite strip system, in which strip is initially solidified, after which next is arranged and solidified on surface of strip, where plant has converter made*, Derwent Primary Accession Number 2021-917684, Indexed 2023-08-10, [RO135108\(A0\)](#), International Patent Classification B22D-011/06into moulds with travelling walls, e.g. with rolls, plates, belts, caterpillars INFO 2289 [3], Derwent Class Code(s), M22 (Casting; powder metallurgy - including foundry moulding, moulding machines, patterns, moulds, cores and metal casting (B22).)P53 (Metal casting, powder metallurgy (B22).)T04 (Computer Peripheral Equipment), Derwent Manual Code(s), M22-G03A1AM22-G03A1BM22-G03A3M22-G03JT04-F02A2T04-F02CT04-L02

- B19. SCUTELNICU E; SIMION G; MIRCEA O; RUSU C C; MISTODIE L R; GHEONEA M; GEANTA V; **VOICULESCU I**, Preparation of multi-element alloy used in e.g. naval industries, involves depositing melt of bundle of rods on substrate by tungsten inert gas welding under argon atmosphere, electric arc melting, and obtaining homogeneous layer of alloy, Derwent Primary Accession Number 2022-E55725, Indexed 2023-08-10, [RO135988\(A0\)](#), Derwent Class Code(s), M26 (Non-ferrous alloys - including alloy production and composition (C22C).)M23 (Soldering; welding - including brazing, flame cutting and scarfing, cutting and welding rods, soldering and unsoldering apparatus and solder compositions (B23K).)X24 (Electric Welding), Derwent Manual Code(s) M23-D01C1M23-D03M26-A01M26-BX24-B04X24-B06X24-D
- B 18. Binchiciu Horia, Geantă Victor, **Voiculescu Ionelia**, Ștefănoiu Radu, Binchiciu Emilia, Negriu Radu Mihai, Binchiciu Aurelia, Electrode cu miez din aliaj tip 73% Fe - 17% Cr, **RO 125834, depus 2009, acordat 2013.**
- B17. Binchiciu E., Geanta V., **Voiculescu I.**, Ștefănoiu R., Iovănaș R.F., Binchiciu A., Binchiciu H., Cutit de freza pentru decopertat asfalt cu sisteme de autoprotecție la uzare și autoblocare la rotire și procedeu de fabricație, RO 129863, acordat 30.05.2019
- B16. **I. Voiculescu**, Geanta V., Ștefănoiu R., Iacobescu G., Grigoriu C, Nicolae I., Drăgulescu D., Viespe C., Sima C., Fugaru V., Manea S., Daisa D, Metoda de sudare cu laser a unei capsule cu material radioactiv, Patent Number: **RO 201200305/03.05.2012**
- B15. Ștefănoiu, R., Binchiciu, E., Binchiciu, H., **Voiculescu, I.**, Geantă, V., Binchiciu, A. Armături amovibile de egală rezistență la uzare și procedeu de obținere – Removable reinforcement equally resistant to wear and process for making the same. Patent Number **RO129865/** Nr. OSIM - A-00549/23.07.2012. $K_{pi} = 25/nr. autori$; $K_4 = 25/6 = 4,166$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B14. Binchiciu, E., **Voiculescu, I.**, Binchiciu, H., Geantă, V., Ștefănoiu, R., Binchiciu, A. Electrode tubulară cu miez compozit și procedeu de obținere - Tubular electrode with composite core and process for making the same. Patent Number **RO129867/** Nr. OSIM - A-00396/06.06.2012. $K_{pi} = 25/nr. autori$; $K_4 = 25/6 = 4,166$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B13. Binchiciu, E., Binchiciu, A., Binchiciu, H., **Voiculescu, I.**, Geantă, V., Ștefănoiu, R. Bandă compozită cu proprietăți de autoasculțire pentru ranforsarea suprafețelor active ale utilajelor de prelucrare a solului și procedeu de obținere – Composite strip with self-dressing properties intended to reinforce the active surfaces of soil working equipments and process for making the same. Patent Number **RO129865/** Nr. OSIM - A-00390/31.05.2012. $K_{pi} = 25/nr. autori$; $K_4 = 25/6 = 4,166$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B12. Binchiciu, E., Geantă, V., **Voiculescu, I.**, Ștefănoiu, R., Iovănaș, R.F., Binchiciu, A., Binchiciu, H. Cutit de freză pentru decopertat asfalt cu sisteme de autoprotecție la uzare și autoblocare la rotire și procedeu de fabricație – Milling cutter tool for asphalt stripping with system of wear-proof self-protection and self-blocking when rotated and process for manufacturing the same. Patent Number **RO129863/** Nr. OSIM - A-00375/28.05.2012. $K_{pi} = 25/nr. autori$; $K_4 = 25/6 = 4,166$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B11. Binchiciu, H., Geantă, V., **Voiculescu, I.**, Binchiciu, A., Vida-Simiti, I., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Electrode din bronz cu înveliș gros pentru încărcare prin sudare - [Electrodes with composite bronze and tin coating, comprises alloy wire rods made of copper and tin.](#) Patent Number: **RO125855/30.07.2012.** $K_{pi} = 25/nr. autori$; $K_4 = 25/8 = 3,125$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B10. Binchiciu, A., **Voiculescu, I.**, Geantă, V., Binchiciu, H., Ștefănoiu, R., Negriu, R.M., Binchiciu, E. Vergea pentru brazare din aliaj de argint cu înveliș dezoxidant - [Ecological coated core wires of silver alloys for brazing, is made by extrusion coating with deoxidizing flux with metal powder addition.](#) Patent Number: **RO125835/30.07.2012.** $K_{pi} = 25/nr. autori$; $K_4 = 25/7 = 3,571$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B09. **Voiculescu, I.**, Binchiciu, A., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Negriu, R.M., Binchiciu, E. – Înveliș de electrozi pentru încărcarea prin sudare cu aliaje rezistente la uzare de abraziune - [Electrode coating for build-up welding with abrasion wear-resistant alloys contains marble, fluorine, rutile, iron, metallic chromium, colloidal graphite, rare earths, aluminum, carboxymethyl cellulose and liquid sodium silicate.](#) Patent Number: **RO125761/30.12.2011.** $K_{pi} = 25/nr. autori$; $K_4 = 25/8 = 3,125$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B08. Binchiciu, A., **Voiculescu, I.**, Geantă, V., Constantin, E., Binchiciu, H., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. – Electrode din bronz cu aluminiu cu înveliș compozit [Electrodes with composite coating of alloy, comprises electrodes meant to deposit by manual electric welding alloys of the type copper, aluminum, nickel, iron and manganese.](#) Patent Number: **RO125856/30.08.2012.** $K_{pi} = 25/nr. autori$; $K_4 = 25/8 = 3,125$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B07. Binchiciu, A., **Voiculescu, I.**, Geantă, V., Binchiciu, H., Ștefănoiu, R., Binchiciu, E. Vergea pentru brazare din aliaj de argint cu înveliș dezoxidant și cu higroscopicitate redusă - [Coated silver alloy rods of reduced hygroscopicity for brazing, comprises silver and tin deposited by extrusion deoxidizing flux made of synthetic vitreous precursors and metal](#)

- [powder additions](#). Patent Number: **RO125836/18.03.2010**. $K_{pi} = 25/nr. autori$; $K_4 = 25/6 = 4,166$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B06. Binchiciu, H., Geantă, V., **Voiculescu, I.**, Ștefănoiu, R., Negriu, R.M., Binchiciu, E., Binchiciu, A. Electrode cu miez din aliaj tip 83%Fe – 17%Cr - [Coating for electrodes for build-up welding, comprises basic coating of the fluoro-calcic type with addition of metallic powders](#). Patent Number: **RO125834/30.01.2013**. $K_{pi} = 25/nr. autori$; $K_4 = 25/7 = 3,571$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B05. Capornită, L., **Voiculescu, I.**, Geantă, V., Ștefănoiu, R., Binchiciu, A., Cămpurean, A.M., Iovănaș, D., Binchiciu, E., Negriu, R.M., Binchiciu, H. Electrode pentru sudarea îmbinărilor din oțel inoxidabil duble cu oțel carbon - [Coating for electrodes employed in welding heterogeneous duplex stainless steel-carbon steel joints](#). Patent Number: **RO125859/30.08.2012**. $K_{pi} = 25/nr. autori$; $K_4 = 25/10 = 2,5$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B04. Binchiciu, A., **Voiculescu, I.**, Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M. Blindaj antiuzură și procedeu de fabricație - [Wear preventing shield with self-protection and process for making the same](#). Patent Number: **RO125760/30.12.2011**. $K_{pi} = 25/nr. autori$; $K_4 = 25/8 = 3,125$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B03. Binchiciu, H., Iovănaș, R., Geantă, V., **Voiculescu, I.**, Binchiciu, A., Iovănaș, D., Ștefănoiu, R., Binchiciu, E. Bară compozită pentru prelucrări prin presare la cald și procedeu sau de realizare - [Irremovable modular composite element, comprises rectangular pipe made of carbon or slightly alloyed steel](#). Patent Number: **RO125759/30.12.2011**. $K_{pi} = 25/nr. autori$; $K_4 = 25/8 = 3,125$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B02. Binchiciu, H., Geantă, V., **Voiculescu, I.**, Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Procedeu și instalație de obținere a unor pulberi din aliaje binare de aluminiu –magneziu destinate producerii unor piese metalice cu structură thixotropă - [Process and installation for producing powders of binary aluminium-magnesium alloys meant for making metal pieces of thixotropic structure](#). Patent Number: **RO125770/30.12.2011**. $K_{pi} = 25/nr. autori$; $K_4 = 25/7 = 3,571$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].
- B01. Geantă, V., **Voiculescu, I.**, Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Prag de retenție pentru concasoarele centrifugale - [Process and composite material for producing the retension aprons in centrifugal crushers](#). Patent Number: **RO125587/30.01.2012**. $K_{pi} = 25/nr. autori$; $K_4 = 25/5 = 5$. [**Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded**].

PREMII, DIPLOME MEDALII

- A. Victor Geanta, Ionelia Voiculescu, **Premiul ASTR 2021**, Secția Știința și Ingineria Materialelor, Premiul „Traian Negrescu” pentru lucrarea „Tratat de obținere a materialelor biocompatibile”, **Academia de Științe Tehnice din Romania**, 22 Oct. 2021.
- B. **Premii la saloane de carte sau inventică**
1. Medalia de aur INVENTICA 2024 pentru Brevetul nr. 135988/29.03.2024, Procedeu de realizare a unei depuneri din aliaj multi-element tip AlCrFeNi prin topire cu arc electric în mediu de gaz protector inert, autori: Scutelnicu E., Simion G., Mircea O., Rusu C.C., Mistodie L.R., Gheonea M.C., Geantă V., Voiculescu., Expoziția Internațională de Inventii INVENTICA 2024, Iași, 03-05.07.2024, ediția a XXVIII.
 2. Premiul Special al Universității Tehnice din Cluj-Napoca pentru Brevetul nr. 135988/29.03.2024, Procedeu de realizare a unei depuneri din aliaj multi-element tip AlCrFeNi prin topire cu arc electric în mediu de gaz protector inert, autori: Scutelnicu E., Simion G., Mircea O., Rusu C.C., Mistodie L.R., Gheonea M.C., Geantă V., Voiculescu., Expoziția Internațională de Inventii INVENTICA 2024, Iași, 03-05.07.2024, ediția a XXVIII.
 3. Premiul Special al Universității Politehnica Timișoara pentru brevetul nr. 135988/29.03.2024, Procedeu de realizare a unei depuneri din aliaj multi-element tip AlCrFeNi prin topire cu arc electric în mediu de gaz protector inert, autori: Scutelnicu E., Simion G., Mircea O., Rusu C.C., Mistodie L.R., Gheonea M.C., Geantă V., Voiculescu., Expoziția Internațională de Inventii INVENTICA 2024, Iași, 03-05.07.2024, ediția a XXVIII.
 4. Special Award, pentru brevetul “Removable Reinforcements of Equal Wear Resistance and Obtaining Procedure” R. Ștefănoiu, E. Binchiciu, H. Binchiciu, I. Voiculescu, V. Geanta, A. Binchiciu, Thailand Inventors, Bangkok International Invention, Innovation & Technology Expo, 2-6 Febr. 2024.
 5. Special Award of Excellence, pentru brevetul “Removable Reinforcements of Equal Wear Resistance and Obtaining Procedure” R. Ștefănoiu, E. Binchiciu, H. Binchiciu, I. Voiculescu, V. Geanta, A. Binchiciu, la E-NNOVATE – International Innovation Summit, Poland, 17.05.2024

6. WIIPA Special Award, pentru brevetul "Removable Reinforcements of Equal Wear Resistance and Obtaining Procedure" R. Stefanoiu, E. Binchiciu, H. Binchiciu, I. Voiculescu, V. Geanta, A. Binchiciu, la International Invention Show (INTARG 2024), Katowice, Poland, 21-23 May 2024
7. Diploma of Gold Medal, Geantă, V., Voiculescu, I., Kelemen, G., Molnar, G., Kelemen, H., Horvath L., Oprea, S. Equipment for complex metallurgical processing by heating induction – BIOLEV. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
8. Diploma of Gold Medal, Ștefănoiu, R., Binchiciu, I., Binchiciu, H., Voiculescu, I., Geantă, V., Binchiciu, A. Wear-resistant removable composite reinforcement and process for obtaining it. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
9. Diploma of Silver Medal, Geantă, V., Voiculescu, I., Ștefănoiu, R., Binchiciu, H., Vasile, I.M., Bârlădeanu, M., Ionescu, M., Cârțumăreasa, D., Irimia, M. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
10. Diploma of Silver Medal, Binchiciu, E., Binchiciu, A., Binchiciu, H., Voiculescu, I., Geantă, V., Ștefănoiu, R. Composite strip used to reinforce the active surfaces of soil-working equipments and process for obtaining it. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
11. Diploma of Silver Medal, Binchiciu, E., Voiculescu, I., Binchiciu, H., Geantă, V., Ștefănoiu, R., Binchiciu, A. Tubular rod with composite core and it's manufacturing process. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
12. Diploma of Silver Medal, Binchiciu, E., GEANTĂ, V., Voiculescu, I., Ștefănoiu, R., Iovănaș, R.F., Binchiciu, H., Binchiciu, A. Mill knife for asphalt cutting/stripping that has wear self protection and auto block when spinning. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
13. Diploma of Silver Medal, Voiculescu I., E. Binchiciu, V. Geanta, Binchiciu H., Ștefănoiu R., Binchiciu A., Air-arc gouging rod and manufacturing process, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
14. Diploma of Gold Medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
15. Diploma of Gold Medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
16. Special Honour of Invention, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. TISIAS, Toronto, Canada, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
17. Special Prize ATIP, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. Thailand, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
18. WIIPA Special Award, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., GEANTĂ, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. Taiwan, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
19. CERTIFICATE for Contribution to Innovation, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenum type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. APIICIS, Portugal, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
20. Special Honour of Invention, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., GEANTĂ, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. TISIAS, Toronto, Canada, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
21. Special Prize ATIP Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises

- cobalt, chromium, silicon, ruthenium, zirconium and silver., Thailand, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
22. WIIPA Special Award, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. Taiwan, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
 23. CERTIFICATE for Contribution to Innovation, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. APIICIS, Portugal, 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
 24. Diploma of Honor Gold Medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenun type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. XXV-th International Exhibition of Inventics, INVENTICA 2021, Iași, România, 23-25 June 2021.
 25. Diploma of Honor Gold Medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. XXV-th International Exhibition of Inventics, INVENTICA 2021, Iași, România, 23-25 June 2021
 26. Excellence Award and gold medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenun type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. from National Institute for Research and Development in Chemistry and Petrochemistry (ICECHIM), 13-th European Exhibition of Creativity and Innovation, EUROINVENT, Iasi, Romania, May 22, 2021.
 27. Excellence Award and gold medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt- chromium-molybdenun type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. from Romanian Association of Pteridology, XXV-th International Exhibition of Inventics, INVENTICA 2021, Iași, România, 23-25 June 2021
 28. Award and gold medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. from Romanian Association of Pteridology, XXV-th International Exhibition of Inventics, INVENTICA 2021, Iași, România, 23-25 June 2021.
 29. Award and gold medal, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. from from National Institute for Research and Development in Chemistry and Petrochemistry (ICECHIM), XXV-th International Exhibition of Inventics, INVENTICA 2021, Iași, România, 23-25 June 2021.
 30. Gold Medal, Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu MM, Sandu A.V. Baltatu S.M., Marinescu V.E., High alloy for medical surgical applications in the FeMoTaTiZr metallurgical system and method of obtaining, Hrvatski Salon Inova, Croatia, Zagreb, Oct. 2021.
 31. Silver Medal, Voiculescu I., Geanta V., Stefanoiu R., Binchiciu H., Vizureanu P., Codescu MM, Sandu A.V. Baltatu S.M., Patroi D., High alloy for medical surgical applications in the MoNbTaTiZr I system with Yttrium for medical applications and consolidation process, Hrvatski Salon Inova, Croatia, Zagreb, Oct. 2021.
 32. Diploma de excelenta si medalia de aur Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu MM, Sandu A.V. Baltatu S.M., Marinescu V.E., High alloy for medical surgical applications in the FeMoTaTiZr metallurgical system and method of obtaining, de la Forumul Inventatorilor Romani, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, ProInvent Cluj Napoca, Editia XIX, 20-22 Oct. 2021, Cluj Napoca.
 33. Diploma de excelenta si medalia de aur Voiculescu I., Geanta V., Stefanoiu R., Binchiciu H., Vizureanu P., Codescu MM, Sandu A.V. Baltatu S.M., Patroi D., High alloy for medical surgical applications in the MoNbTaTiZr I system with Yttrium for medical applications and consolidation process, de la Forumul Inventatorilor Romani, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, ProInvent Cluj Napoca, Editia XIX, 20-22 Oct. 2021, Cluj Napoca.
 34. Diploma si medalia de aur, Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu MM, Sandu A.V. Baltatu S.M., Marinescu V.E., Binchiciu E.F., Patroi D., inventii „Aliaje cu entropie ridicata pentru aplicatii medicale, Expozitia Internationala Specializata „Infoinvent,, Ediția a XVII-a, Chișinău, Republica Moldova, 17-20 Noiembrie 2021.

35. *Diploma si medalie de aur, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Cobalt, chromium and noble metal containing alloy used for manufacturing metal-ceramic prestheses, comprises cobalt, chromium, silicon, ruthenium, zirconium and silver. International Exhibition INVENTCOR, Editia a II-a, by CORNELIUGROUP Innovation Association, 16-18 12. 2021, Deva, Romania.*
36. *Diploma si medalie de aur, Antoniac, V.I., Rau, Dz., Semenescu, A., Dawod, N., Geantă, V., Voiculescu, I., Mateș, I.M., Șolea, M.R. Dental alloy of cobalt-chromium-molybdenun type used for making metal-ceramic dental prostheses, comprises cobalt, chromium, molybdenum, silicon, niobium, ruthenium, zirconium and silver. International Exhibition INVENTCOR, Editia a II-a, by CORNELIUGROUP Innovation Association, 16-18 12. 2021, Deva, Romania.*
37. *Diploma and Gold Medal for invention - Laser Welding Method of the Capsules with Radioactive Material, International Exhibition of Economic and Scientific Innovations, Katowice, Poland, 2016.*
38. *Diploma si medalie de aur I.Voiculescu, V.Geanta, R.Stefanoiu, G.Iacobescu, C.Grigoriu, I. Nicolae, D.Dragulinescu, C. Viespe, C. Sima, V. Fugaru, S.E. Manea, D.D. Daisa, pentru inventia - Laser Welding Method of the Capsules with Radioactive Material, la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2016.*
39. *Diploma si medalie de argint H. Binchiciu, D. Tihanov-Tanasache, V. Geanta, E. Binchiciu, I. Voiculescu, A. Binchiciu, R. Stefanoiu, pentru inventia Hammer for mills grinding through impact and its obtaining process, Expozitia Europeana a Creativitatii si Inovarii, Iasi 2016.*
40. *Diploma si medalia de aur, E. Binchiciu, I. Voiculescu, V. Geanta, A. Binchiciu, R. Stefanoiu, D. Tihanov-Tanasache, H. Binchiciu, pentru inventia- Coated rods for brazing and obtaining process, Expozitia Europeana a Creativitatii si Inovarii, Iasi 2016.*
41. *Diploma de excelență si medalia de aur cu mențiune specială, H. Binchiciu, D. Tihanov-Tanasache, V. Geanta, E. Binchiciu, I. Voiculescu, A. Binchiciu, R. Stefanoiu, pentru inventia – Ciocane de mori pentru macinare prin impact si procedeele lor de obtinere, Salonul International de Inventica PRO-INVENT, ed. XIV, 2016, Cluj-Napoca, Romania*
42. *Diploma de excelență și medalia de aur cu mențiune specială, E. Binchiciu, I. Voiculescu, V. Geanta, A. Binchiciu, R. Stefanoiu, D. Tihanov-Tanasache, H. Binchiciu, pentru inventia – Vergele invelite pentru brazare si procedeu de realizare, Salonul International de Inventica PRO-INVENT, ed. XIV, 2016, Cluj-Napoca, Romania.*
43. *Diploma si medalie de aur, I.Voiculescu, I.M. Vasile, E.M. Stanciu, A. Pascu, Carte - Stiinta si ingineria materialelor, la „Tehnic-Scientific, Artistic and Literary Book Salon”, European Exhibition of Creativity and Innovation, EUROINVENT, Iasi 2015.*
44. *Diploma acordata de Asociatia de Sudura din Romania (ASR) pentru „Activitatea meritorie desfasurata la organizarea actiunilor ASR de la Bucuresti in 17-19 aprilie 2013”, pentru I.Voiculescu, cu ocazia Conferintei ASR din 9 aprilie 2014, Sibiu.*
45. *Diploma, I.Voiculescu, V.Geanta, R.Stefanoiu, G.Iacobescu, C.Grigoriu, I. Nicolae, D.Dragulinescu, C. Viespe, C. Sima, V. Fugaru, S.E. Manea, D.D. Daisa, brevet - Automated Installation for Laser Beam Welding of Radioactive Capsules for Nuclear Medicine and Method of Use, acordata de Universitatea „Valahia” din Targoviste, Centrul de Cercetare „Nanomateriale pentru micro sisteme mecanice” la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2014.*
46. *Diploma – premiu special, V. Geanta, I. Voiculescu, R. Stefanoiu, pentru „Innovative Research in Elaboration of Metallic Materials”, European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2014.*
47. *Diploma si medalie de argint, I.Voiculescu, V.Geanta, R.Stefanoiu, G.Iacobescu, C.Grigoriu, I. Nicolae, D.Dragulinescu, C. Viespe, C. Sima, V. Fugaru, S.E. Manea, D.D. Daisa, Brevet - Automated Installation for Laser Beam Welding of Radioactive Capsules for Nuclear Medicine and Method of Use, la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2014.*
48. *Diploma si medalie de aur, V.Geanta, I.Voiculescu, H.Binchiciu, A.Binchiciu, R.Stefanoiu, E.Binchiciu, R.M. Negriu, Brevet - Installation and Procedure for Obtaining Powders of Binary Aluminium-Magnezium Alloys used for Making Metal, la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2013.*
49. *Diploma si medalie de argint, R.Stefanoiu, V.Geanta, H.Binchiciu, I.Voiculescu, A. Binchiciu, E. Binchiciu, Brevet - Electrode with core from alloy 83%Fe/17%Cr, la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2013.*
50. *Diploma de excelență, V.Geanta, I.Voiculescu, H. Binchiciu, A.Binchiciu, R.Stefanoiu, E. Binchiciu, R.Negriu, Brevet - Procedeu și instalație de obținere a unor pulberi din aliaje binare de aluminiu –magneziu destinate producerii unor piese metalice cu structură thixotropă, European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2013, acordata de Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie ICECHIM, Bucuresti;*
51. *Premiu special acordat de Korea INVENTION NEWS, Group of inventions, I.Voiculescu, 4th Edition of European Exhibition of Creativity and Innovation, EUROINVENT 2012, Iasi, Romania.*

52. *Diploma si medalie de aur, I.Voiculescu, C.Rontescu, I.L.Dondea, Carte- Metalografia Îmbinărilor Sudate, Editura SUDURA, Timisoara, 2010, ISBN 978-973-8359-58-1, NATIONAL SALON of TECHNICAL and SCIENTIFIC BOOKS (Salonul National de Carte Tehnica si Stiintifica), Iasi, 2012.*
53. *Diploma de excelență PRO INVENT și medalie de aur, Binchiciu, H., Geantă, V., Voiculescu, I., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M., Brevet - Procedeu și instalație de obținere a unor pulberi din aliaje binare de aluminiu-magneziu destinate producerii unor piese metalice cu structură thixotropică, la Salonul internațional de inventică PROINVENT, Ediția a X-a, Cluj-Napoca, 27 – 30 martie 2012.*
54. *Diploma de excelență PRO INVENT si medalie de aur, Geantă, V., Voiculescu, I., Ștefănoiu, R., Binchiciu, H., Negriu, R.M., Brevet - Prag de retenție pentru concasoare centrifugale, Salonul internațional de inventică PROINVENT, Ediția a X-a, Cluj-Napoca, 27 – 30 martie 2012.*
55. *Diploma si medalie de bronz (Bronze Medal),Voiculescu, I., Binchiciu, A., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Negriu, R.M., Binchiciu, E., Brevet - Electrodes coating for welding deposition using hard resistant wear alloys, la European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12 2012.*
56. *Diploma si medalie de aur (Gold Medal), Binchiciu, A., Voiculescu, I., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M., Brevet - Wear preventing shield and manufacturing process, la European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12, 2012.*
57. *Diploma si medalie de aur (Gold Medal), Geantă, V., Voiculescu, I., Ștefănoiu, R., Binchiciu, H., Negriu, R.M., Brevet - Retention apron for centrifugal crushers, la European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12, 2012.*
58. *Diploma de excelență și Medalia de aur, Binchiciu, H., Geanta, V., Voiculescu, I., Binchiciu, H., Vida-Simiti, I., Ștefănoiu, R., Binchiciu, E., Negriu, R.M., Brevet - Electrozi cu înveliș compozit din bronzuri cu staniu, Salonul internațional de inventică PROINVENT, Ediția a IX-a, Cluj-Napoca, 22 – 25 martie 2011.*
59. *Diploma de excelență și Medalia de aur, Binchiciu, A., Voiculescu, I., Geanta, V., Binchiciu, A., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M., Grup de invenții, Salonul internațional de inventică PROINVENT, Ediția a IX-a, Cluj-Napoca, 22 – 25 martie 2011.*
60. *Diploma si medalia de aur (Gold Medal).Geanta, V., Voiculescu, I., Ștefănoiu, R., Binchiciu, H., Negriu, RM. European Exhibition of creativity and Innovation, EUROINVENT, Iași, România, may 12 – 14, 2011 - Group of Inventions,*