



Curriculum vitae Europass

Informații personale

Nume / Prenume

IONELIA VOICULESCU

Adresă(e)

Telefon(oane)

E-mail

Naționalitate

Sex

Locul de muncă vizat / Domeniul ocupațional

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

Experiența profesională

H index 14, h-index 20, i10-index 36

Perioada

2005 - prezent

Funcția sau postul ocupat

Profesor universitar

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, 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 în 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
Numele și adresa angajatorului
Tipul activității sau sectorul de activitate

Perioada

Funcția sau postul ocupat

Activități și responsabilități principale

Numele și adresa angajatorului

Perioada

Funcția sau postul ocupat

Activități și responsabilități principale

Numele și adresa angajatorului

Educație și formare

24.09.2019

Sustinere examen abilitare

Calificarea / diploma obținută

Septembrie 1992 – Martie 1998

Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de învățământ
/ furnizorului de formare

Nivelul în clasificarea națională sau
internațională

Perioada

Calificarea / diploma obținută

Disciplinele principale studiate /
competențe profesionale dobândite

Numele și tipul instituției de învățământ
/ furnizorului de formare

Nivelul în clasificarea națională sau
internațională

Aptitudini și competențe personale

Limba maternă

Limbi străine cunoscute

Autoevaluare

Nivel european ()*

Limba

Limba

Activități didactice de laborator și asistență la cursuri de specialitate

Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România
UNI

1985 - 1987

Inginer cercetare

Cercetare științifică, participare la ședințe tehnice de evaluare

Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România

1983 - 1985

Inginer stagiar

Proiectare autoutilare

SC ELECTROARGES SA Curtea de Argeș, Jud. Argeș

Profesor 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)

DOCTOR INGINER, Diploma cu Seria P, Nr. 0001119, aprobată prin Ordinul Ministrului
Învățământului /11.03.1998

Tehnologia sudării prin topire, Știința materialelor, Bazele proceselor de sudare /Tehnologia sudării
prin presiune, Coordonarea activităților de cercetare pe bază de program experimental

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

UNI

Septembrie 1978 - iunie 1983

INGINER, DIPLOMA nr. 5412 din 23.12.1983, profil Mecanic, specializarea Utilajul și tehnologia
sudării, Șef de promoție pe țară

Tehnologii de sudare, Bazele proceselor de sudare, Control defectoscopic nedistructiv, Studiul
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

Institutul Politehnic București, 313, Splaiul Independentei, sector 6, 060042, București, România

UNI

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 Cadrului European Comun de Referință Pentru Limbi Străine](#)

Competențe și abilități sociale

Competențe și aptitudini organizatorice

Competențe și aptitudini tehnice

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 Leonardo da Vinci, 2002-2004, Lisabona, Portugalia - *Training and certification of assessors in welding and nondestructive testing field*, Nr. RO/F/91111/2003, , Parteneri: EWF – European Federation for Welding, Joining and Cutting, Porto Salvo, PT, Universitatea Politehnica din București, Universitatea "Transilvania" Brașov, **Coordonator**
- **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
- 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**

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.

Publicare de cursuri și cărți de specialitate

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: 87 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. JMADE (Journal of Materials and Design)-D –2017
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. IJMSA (International Journal of Materials Science and Applications)-2018;
10. Metals, 2020-prezent
11. Materials, 2020- prezent
12. Coatings, 2020-prezent
13. MSEA - Materials Science & Engineering A, 2017-pezent
14. Materials Characterization, 2017-prezent
15. EVISE, 2018-prezent
16. ACS Omega, 2020-prezent
17. Crystals, 2020-prezent
18. IJMT (International Journal of Modern Manufacturing Technologies), 2020-prezent
19. International Journal of Pressure Vessels and Piping, 2020-prezent
20. JALCOM (Journal of Alloys and Compounds), 2020-prezent
21. JOLT (Optics and Laser Technology), 2020-prezent
22. Materials Letters, 2020-prezent
23. Materials Research, 2020-prezent
24. Defence Technology, 2021-prezent
25. Advances in Materials Science and Engineering, 2021-prezent
26. Journal of Engineering Manufacture, 2021-prezent
27. JMSc (Journal of Materials Science), 2021-prezent
28. Applied Materials Today, 2021-prezent
29. Canadian Metallurgical Quarterly, 2021-prezent
30. CIRP Journal of Manufacturing Science and Technology, 2022-prezent
31. JOAM, 2022-prezent
32. Humans, 2022-prezent
33. JMPE (Journal of Materials Engineering and Performance), 2022-prezent
34. MST (Materials Science and Technology), 2022-prezent
35. ACM (Advanced Composite Materials), 2023-prezent
36. ADEM (Advanced Engineering Materials), 2023-prezent
37. AMP (Annals of Mathematics and Physics), 2023-prezent
38. JEM (Journal of Engineering Manufacture), 2023-prezent
39. Nanomaterials, 2023-prezent
40. Vacuum, 2023-prezent
41. JMDSA (Journal of Materials: Design and Application), 2024-prezent
42. JALMES (Journal of Alloys and Metallurgical Systems), 2024-prezent
43. PONE (PLOS ONE), 2024-prezent
44. Processes, 2024-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 5. Member of the C-IV group from International Institute of Welding
Experiență de management, analiză și evaluare în cercetare și/sau învățământ	Expert european Leonardo da Vinci si responsabil proiecte pilot la Agentia Nationala 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 in Senatul UPB (2014-2015) Membru in Consiliul Facultatii IMST (2004-2008) Membru in Consiliul de conducere al Dep. ICTI (2004-2008) si (2014-2019-prezent) Membru in Comisia de Etica si Integritate a UPB (2015-2018) Evaluator AMCSIT Politehnica/RELANSIN, MATNANTECH, CNCSIS
Alte competențe și aptitudini	Membru in Asociații profesionale: - ASR – Asociatia de Sudura din Romania - Presedinte Filiala Bucuresti - SF2M – Societe Francaise de Materiaux et 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 Romania, membru 1990. Menționare in Monografii - Monografia Bibliografica "Who's Who in The World" in 1999 - Selecționata pentru "20th Century Award for Achievement" - 2000. - Nominalizată - INTERNATIONAL WOMAN OF THE YEAR, 2000/2001 - Bibliografie Publicată în Monografia Bibliografica "Who's Who, Enciclopedia Personalităților din România" in 2008.
Premii, diplome și medalii	2 premii internaționale, 65 diplome naționale (printre care 1 diplomă acordată de Academia de Științe Tehnice din Romania - ASTR), 31 medalii din care 19 de aur, ISI Clarivate Hirsh index = 14, i10 = 36, Scopus h=20
Permis de conducere	Categoria B Prof.dr.Ing. Ionelia VOICULESCU, 20.09.2025

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 științific	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 științific	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 științific	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 științific	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 științific	2005-2007	277.000
Program CEEX, contract nr. 78/2005 – Cercetări inovative privind realizarea și implementarea în agregatele termice industriale a unor noi atenuatoare de zgomot în vederea reducerii poluării sonore generate de esaparea în atmosferă de gaze sau abur – POLSON	Responsabil științific	2005-2007	236.000
Program RELANSIN, contract nr. 2101 / 2004, Realizarea și implementarea cuptoarelor de încălzire pentru produse mici, de serie mare, supuse operațiilor de matritare – CUPTINC	Colaborator	2004-2006	
Program CEEX, contract Nr. 158 /2006 – Cercetări privind elaborarea unei tehnologii românești 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 ortopedică – BIOCOB	Colaborator	2006 – 2008	
Program CEEX, contract Nr. 256 /2006 – Cercetări fundamentale și aplicative privind prelucrarea cu jet de apă și particule abrazive orientate electromagnetic – ELMAJET	Colaborator	2006 – 2008	350.000
Program CEEX, contract Nr. 299 /2006 – Cercetări fundamentale și aplicative privind transferul intensiv al energiei termice în cuptoare destinate obținerii produselor ceramice de înaltă 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 încercări 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 termică, 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 în sistem modular a snecurilor utilajelor de extruziune din industriile prelucrătoare – SENMELC	Colaborator	2007 – 2009	350.000

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 științific	2007 – 2009	400.000
Program PNCDI, contract Nr. 71118 /2007 – Nanomateriale de adaos microaliate pentru imbinarea materialelor ceramice – NANOCERAD	Responsabil științific	2007 – 2010	460.000
Program PNCDI, contract Nr. 71132 /2007 – Sudarea cu laser a capsulelor pentru surse radioactive- LASERCAP	Responsabil științific	2007 – 2010	500.000
Program PNCDI-Inovare, contract Nr. 1321 /2007 – Instalatie ecologica pentru prelucrarea deseurilor menajere – ECOMAG	Responsabil științific	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 științific	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 științific UPB	2012 - 2015	350.000

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	406.351
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.1.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 matériaux 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	

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 Liliana 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., Vasii, 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, 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, Data 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>.

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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 licența pentru uzul absolvenților Specializarea Ingineria sudarii*, 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.

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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

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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; Ștefănoiu, 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., Binciciu, 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.
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19. Pencea, I., Sfăt, 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
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- 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-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., Iovanaș 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 reinforcementequally 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 tubular 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. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/6 = 4,166$. **[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. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/6 = 4,166$. **[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. Cuțit 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. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/6 = 4,166$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/8 = 3,125$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/7 = 3,571$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/8 = 3,125$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/8 = 3,125$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/6 = 4,166$. **[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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/7 = 3,571$. **[Derwent Innovation Index ISI-Web of Science/Science Citation Index Expanded]**.
- B05. Capornîță, L., **Voiculescu, I.**, Geantă, V., Ștefănoiu, R., Binchiciu, A., Câmpurean, 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**. $K_{pi} = 25/\text{nr. autori}$; $K_4 = 25/10 = 2,5$. **[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 procedeul 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. Procedeul 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, Procedeul 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 Invenții 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, Procedeul 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 Invenții INVENTICA 2024, Iași, 03-05.07.2024, ediția a XXVIII.
 3. Premiul Special al Universității Politehnica Timișoara pentru brevetul nr. 135988/29.03.2024, Procedeul 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 Invenții 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-INNOVATE – 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., Cărciumăreasa, 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., Stefanoiu 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-molybdenun 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-molybdenun 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-molybdenun 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-molybdenun 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-molybdenun 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., Mateş, I.M., Şolea, 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., Mateş, I.M., Şolea, 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.
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L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

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