



Europass Curriculum Vitae



Informații personale

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Roxana Elena Ionete

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Română

21 Iunie 1971

Experiență profesională

Perioada

Funcția sau postul ocupat

Activități și responsabilități principale

Numele și adresa angajatorului

Tipul activității sau sectorul de activitate

Februarie 2019 - prezent

Cercetător științific gradul I; Director Departament ICSI Analytics

Coordonarea activităților din cadrul ICSI Analytics; Coordonare proiecte/teme de cercetare în domeniul mediului – schimbări climatice și calitatea vieții – securitate alimentară; Cercetare în domeniul aplicațiilor izotopilor stabili (ex. autentificare alimente/băuturi, hidrologie, ecologie). Studiul predilect al proceselor de schimb izotopic în interrelațiile dintre factorii abiotici și sistemele vii cu aplicații directe în științele mediului, sănătate și agricultură/siguranță și securitate alimentară; utilizarea componentelor organici în investigarea diferitelor procese din domeniul mediului, agriculturii și produselor alimentare.

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România

Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor stabili; Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu.

Perioada

Funcția sau postul ocupat

Activități și responsabilități principale

Numele și adresa angajatorului

Tipul activității sau sectorul de activitate

Decembrie 2013 - Februarie 2019

Cercetător științific gradul I; Șef Departament Cercetare-Dezvoltare și Transfer Tehnologic

Coordonarea activităților de cercetare din cadrul departamentului; Coordonare teme de cercetare aplicativă orientată spre mediu și calitatea vieții; Cercetare în domeniul aplicațiilor izotopilor stabili (hidrologie; securitate alimentară); monitorizare mediu. Studiul predilect al proceselor de schimb izotopic în interrelațiile dintre factorii abiotici și sistemele vii cu aplicații directe în științele mediului, sănătate și siguranță și securitate alimentară; utilizarea componentelor organici în investigarea diferitelor procese din domeniul mediului, agriculturii și produselor alimentare.

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România

Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor stabili; Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu.

Perioada

Funcția sau postul ocupat

Ianuarie 2009 – Decembrie 2013

Cercetător științific gradul II; Șef Departament Cercetare-Dezvoltare și Transfer Tehnologic - Înlocuitor

<i>Activități și responsabilități principale</i>	<i>Coordonarea activităților din cadrul Departamentului de Cercetare-Dezvoltare și Transfer Tehnologic; Coordonare proiecte/teme de cercetare aplicativă orientată spre mediu și calitatea vieții; Cercetare în domeniul aplicațiilor izotopilor stabili (ex. autentificare alimente/băuturi, hidrologie); monitorizare mediu - extinderea domeniului de aplicații a izotopilor stabili în autentificarea materiilor prime, cu aplicație atât în domeniul securității alimentare, cât și a protecției mediului la identificarea surselor de poluare.</i>
<i>Numele și adresa angajatorului</i>	Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România
<i>Tipul activității sau sectorul de activitate</i>	Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor stabili; Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu.
<i>Perioada</i>	Februarie 2004 – Ianuarie 2009
<i>Funcția sau postul ocupat</i>	Cercetător științific gradul III; Șef Departament Cercetare-Dezvoltare și Transfer Tehnologic - Înlocuitor
<i>Activități și responsabilități principale</i>	<i>Coordonarea activităților din cadrul Departamentului de Cercetare-Dezvoltare și Transfer Tehnologic; Coordonator al proiectului pentru dezvoltarea unei platforme tehnologice pentru hidrogen, pile de combustie și bio-combustibili în România; Implicată în cercetarea aplicată orientată spre mediu și calitatea vieții; Altele: analiza nivelului radionuclizilor cu semnificație radioecologică majoră în mediul acvatic; interpretare date; participare la elaborarea unei strategii de investigare a surselor de apă minerală naturală în vederea stabilirii genezei și gradului de protecție la factorii de mediu perturbatori, prin metodologii izotopice; elaborarea unei strategii de monitorizare a calității aerului într-o zonă urbană industrializată, utilizând sisteme avansate de analiza, tip GIS; cercetări privind dezvoltarea de celule de combustibil cu hidrogen și membrană schimbătoare de protoni; cercetări privind obținerea hidrogenului ultrapur pentru aplicații energetice; extinderea domeniului de investigare a izotopilor stabili ca indicatori de origine, cu aplicație atât în domeniul securității alimentare, cât și al protecției mediului, în special la identificarea surselor de poluare.</i>
<i>Numele și adresa angajatorului</i>	Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România
<i>Tipul activității sau sectorul de activitate</i>	Cercetare-Dezvoltare în domeniul aplicațiilor izotopilor stabili; Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu
<i>Perioada</i>	Octombrie 2001 – Februarie 2004
<i>Funcția sau postul ocupat</i>	Cercetător științific gradul III;
<i>Activități și responsabilități principale</i>	<i>Cercetare aplicată în domeniul monitorizării mediului; aplicarea izotopilor stabili în studii hidrologice; modelare GIS</i>
<i>Numele și adresa angajatorului</i>	Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România
<i>Tipul activității sau sectorul de activitate</i>	Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu
<i>Perioada</i>	Octombrie 2000 - Octombrie 2001
<i>Funcția sau postul ocupat</i>	Cercetător științific
<i>Activități și responsabilități principale</i>	<i>Activități de cercetare în domeniul fiabilității și evaluării riscului pentru instalațiile industriale (ex. instalațiile de apă grea, instalatii criogenie); Manager IT</i>
<i>Numele și adresa angajatorului</i>	Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România
<i>Tipul activității sau sectorul de activitate</i>	Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu.
<i>Perioada</i>	Decembrie 1995 – Octombrie 2000
<i>Funcția sau postul ocupat</i>	Inginer Mecanic

<i>Activități și responsabilități principale</i>	Activități de cercetare în domeniul fiabilității și evaluării riscului pentru instalațiile industriale (ex. instalațiile de apă grea, instalații criogenice); Studiul fiabilității sistemelor utilizând diagrame logice (arbori de defectare, arbori de evenimente); Analiza fiabilității și disponibilității instalațiilor de producere a apei grele; Studii și analize de risc pentru instalațiile de producere a apei grele; Studii privind optimizarea specificațiilor tehnice ale echipamentelor; Colaborări pe probleme de mediu cu Universitatea Tehnică de Construcții București, ROMAG Drobeta Turnu Severin, CITON București; Autorizarea INC-DTCl - ICSI Rm. Vâlcea de către MAPPM pentru efectuarea studiilor de impact asupra mediului și bilanțuri de mediu (EIM-2-324/189, BM-3-255 /190, 25.07.1997); Responsabil realizare proceduri de asigurare a calității în cadrul INC-DTCl - ICSI Rm. Vâlcea; Studii privind impactul activității industriale asupra mediului; Construire hărți digitale; analize GIS.
<i>Numele și adresa angajatorului</i>	Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice – ICSI Râmnicu Vâlcea, Str Uzinei nr. 4, 240050 – Râmnicu Vâlcea, VL, România
<i>Tipul activității sau sectorul de activitate</i>	Cercetare-Dezvoltare în domeniul științelor ingineresti, aplicații de mediu.
Educație și formare	
<i>Perioada</i>	1996 – 2003
<i>Calificarea/diploma obținută</i>	Doctor în științe ingineresti
<i>Discipline principale studiate/competențe profesionale</i>	Inginerie mecanică/Titulul tezei: " Contribuții privind evaluarea riscului unei instalații de distilare izotopică a hidrogenului lichid"
<i>Numele și tipul instituției de învățământ/furnizorului de formare</i>	Universitatea Tehnică de Construcții București
<i>Nivelul în clasificarea națională sau internațională</i>	ISCED Nivelul 8 – Doctorat sau nivel echivalent
<i>Perioada</i>	1998 – 1999
<i>Calificarea/diploma obținută</i>	Certificat specializare în Eco-Management
<i>Discipline principale studiate/competențe profesionale</i>	Discipline în domeniul Eco-Management
<i>Numele și tipul instituției de învățământ/furnizorului de formare</i>	Universitatea Tehnică din Cluj Napoca (România) și Universitatea din Minnesota (SUA)
<i>Nivelul în clasificarea națională sau internațională</i>	ISCED Nivelul 5 – Invățământ superior de scurtă durată
<i>Perioada</i>	septembrie 1989 - iulie 1994
<i>Calificarea/diploma obținută</i>	diplomă de licențiat
<i>Discipline principale studiate/competențe profesionale</i>	inginerie mecanică, chimie generală, fizică, organe de mașini, rezistența materialelor, matematici speciale, informatică
<i>Numele și tipul instituției de învățământ/furnizorului de formare</i>	Universitatea Transilvania Brașov, România Facultatea de Mecanică
<i>Nivelul în clasificarea națională sau internațională</i>	ISCED Nivelul 6 – Licență sau nivel echivalent
<i>Perioada</i>	1984 – 1989
<i>Calificarea/diploma obținută</i>	Diplomă în Electrotehnică
<i>Discipline principale studiate/competențe profesionale</i>	Științe Electrice
<i>Numele și tipul instituției de învățământ/furnizorului de formare</i>	Liceul Industrial Nr. 7, Râmnicu Vâlcea, România.
<i>Nivelul în clasificarea națională sau internațională</i>	ISCED 3 – Invățământ (superior) secundar

Competențe personale*Limba maternă***Română***Alte limbi străine cunoscute*

		Înțelegere				Vorbire				Scriere	
		Ascultare		Citire		Participare la conversație		Discurs oral			
English	B2	Utilizator Independent	C2	Utilizator experimentat	B2	Utilizator Independent	B2	Utilizator Independent	B2	Utilizator Independent	
French	B2	Utilizator Independent	B2	Utilizator Independent	B1	Utilizator Independent	B1	Utilizator Independent	A2	Utilizator de bază	

(*) [Common European Framework of Reference for Languages](#)*Competențe de comunicare*

Aptitudini de adaptare și comunicare în diverse medii, dobândite prin participarea la diverse conferințe/workshopuri naționale și internaționale, grupuri de lucru în calitate de expert tehnic sau coordonarea directă a unor proiecte și echipe.

Competențe organizaționale/manageriale

Activități de management și coordonare proiecte (Anexa 1)
Membru în organizații științifice naționale și internaționale

Competențe dobândite la locul de muncă

Cunoștințe profesionale ridicate în domeniul utilizării izotopilor stabili sau a altor markeri pentru studii de mediu și sănătate;
Competență în domeniul analizei de risc și fiabilitate pentru instalații industriale; interpretare date izotopice - izotopilor stabili;
Modelare GIS; Alte programe - geo-informatică (ArcView GIS și programare Avenue), soft risk (ex. HAZMAN)
Analiză financiară proiecte de cercetare. Management de proiect.
Utilizare suport IT (Windows, Word, Excel, Power Point, Internet&Comunicații) pentru stocarea, prelucrarea și analiza datelor.
Competențele tehnice au fost dobândite cu ocazia cursurilor universitate, și a specializărilor post-universitare, prin realizarea diferitelor lucrări în domeniul energie-mediu și bioeconomie, proiecte naționale și prin participarea la workshopuri/ cursuri/instruiri și întruniri tehnice de lucru.

Statut social:

Căsătorită; 2 copii

Afilieri:

- Membru al Societății Europene de Fizică
- Membru al Societății Romane de Fizică
- Membru fondator al Alianței pentru hidrogen și pile de combustie (H₂FC-RO) – 2005;
- Membru fondator al Asociației pentru Energia Hidrogenului din România, înființată în anul 2012
- Membru al Societății Europene pentru Cercetarea Izotopilor (ESIR)

Cursuri de specializare post-universitare:

- Curs specializare “Integrarea cerințelor Ordinului 600/2018 cu cerințele sistemelor de management calitate, mediu, sănătate și securitate ocupațională”, organizat de Asociația Română pentru Calitate (ARC), 2018
- Curs specializare “Manager”, organizat de Extreme Training București, în 2017.
- Școala de vară “Computational and Experimental Simulation of Combustion & Multi-Phase Flows in Advanced Energy Systems”, organizat de Sakarya University, Turcia, în 2004
- Curs specializare “ArcView pentru avansați”, organizat de Geosystems România SRL, în 2001
- Curs specializare “Introducere în ArcView GIS”, organizat de Geosystems România SRL, în 2001
- Studii program postuniversitar în Eco-Management – organizat de Universitatea Tehnică Cluj-Napoca și Universitatea din Minnesota, Hubert H. Humphrey Institute of Public Affairs (USA), perioada 1998-1999.

Evaluator articole de specialitate (reviewer) la jurnalele:

- Journal of Food Composition and Analysis (2017-2018)
- Microchemical Journal (2018)
- Progress of Cryogenics and Isotopes Separation (2016 - 2019)
- Food Analytical Methods (2016 – 2017, 2020)
- Science of the Total Environment (2016 - 2017)
- Analytical Letters (2014 - 2015, 2017)
- Isotopes in Environmental and Health Studies (2014)
- Molecules (2019 – 2020)
- Metabolites (2019)
- Beverages (2020)

Publicații științifice: vezi (ResearcherID: B-7798-2011); ORCID ID: 0000-0002-0789-6108

Recunoaștere:

- Președinte al Societății Europene pentru Cercetarea Izotopilor (ESIR) în perioada 2015-2017
- Membru în Advisory Board al Societății Europene pentru Cercetarea Izotopilor (ESIR) în perioada 2015-2020
- Expert tehnic în grupul de lucru “isotopic measurements” al European Reference Centre for Control in the Wine Sector – ERC-CWS network (în perioada 2015-2020);
- Reprezentant al României în grupul reprezentanților Statelor Membre pentru FCH-JTI (Hydrogen and Fuel Cell - Joint Technology Initiative) – 2008;
- Membru al IP X-Cutting Group (strategy implementation group of the European Platform for Hydrogen and Fuel Cells in Europe - 2006;
- Secretar al Consiliului Științific al ICSI Rm. Vâlcea (Mai 2004 – Noiembrie 2012);
- Vice-președinte al Consiliului Științific al ICSI Rm. Vâlcea (Noiembrie 2012 - prezent).
- Secretar Științific al ICSI Rm. Vâlcea – din iulie 2020

Anexe	Anexa 1: Experiența acumulată în proiecte de cercetare
	Anexa 2: Brevete
	Anexa 3: Cărți / capitole publicate
	Anexa 4: Lista de lucrări publicate relevante
	Anexa 5: Premii

06 Iulie 2020

Dr. ing. Roxana Elena Ionete



Anexa 1: Experienta acumulata in proiecte de cercetare

Programul/Proiectul	Functia	Perioada
Proiect PN 19 11 03 03 – “Cercetări asupra tendințelor de variație specifice izotopilor stabili în diferite specii de arbori: aprofundarea mecanismelor de fracționare și a proceselor chimice interconectate pe lanțul sol-apă-plantă”	Persoana cheie - Participare realizare proiect	2019 -2022
Proiect PN 19 11 03 02 – “Tehnici avansate pentru identificarea surselor de contaminare și a reacțiilor biochimice în ecosistemele acvatice”	Persoana cheie - Participare realizare proiect	2019 -2022
PN-III-P2-2.1-CI-2018-0993, NR. 168CI/2018 denumire proiect: Procedeu inovativ de frăgezire a cărnii și influența aplicării sale asupra unor produse tradiționale din carne de porc și vită	Persoana cheie - Participare realizare proiect	2018
Proiect PN 18 12 03 02 – “Cercetari privind dezvoltarea de metode analitice avansate de investigare a produselor alimentare ecologice de origine vegetala sau animala”	Persoana cheie - Participare realizare proiect	2018
Proiect PN 18 12 03 03 – “Evaluarea impactului deversarilor de ape uzate asupra mediului prin investigatii analitice avansate bazate pe tehnici nucleare si conexe”	Persoana cheie - Participare realizare proiect	2018
Proiect PN-III-P2-2.1-PED-2016-1656, Contract 194PED/2017 – “Abordări analitice alternative pentru detectarea falsificării mierii cu accent pe compușii săi biologic active”	Persoana cheie - Participare realizare proiect	2017-2019
Proiect PN 16 36 04 02 – “Cercetari avansate privind autentificarea originii produselor alimentare, în scopul de a implementa metodologii de amprentare inovatoare - accent pe produsele pe bază de fructe”	Persoana cheie - Participare realizare proiect	2016-2017
Proiect PN 16 36 04 01 – “Evaluarea impactului diferitelor ecosisteme asupra izotopilor stabili și compoziției multi-element a plantelor - Cercetări privind variabilitatea geo-sezoniera”	Persoana cheie - Participare realizare proiect	2016-2017
Proiect COST - EU Framework Programme Horizon 2020 - FA 1403 -POSITIVE: “Interindividual variation in response to consumption of plant food bioactives and determinants involved”	Coordonator echipa ICSI	2015
Proiect PN – “Cercetări privind dezvoltarea unor metode analitice avansate pentru investigarea profilului compozițional al produselor cu matrice complexă”	Persoana cheie - Participare realizare proiect	2013-2014
Proiect PN – “Cercetări suport privind aplicarea investigațiilor multielement și multi-izotopice în stabilirea de markeri de origine pentru trasabilitatea produselor alimentare”	Persoana cheie - Participare realizare proiect	2013-2014
Proiect PN – “Cercetări privind caracterizarea și autentificarea produselor naturale pe baza evaluării profilului lor proteic”	Persoana cheie - Participare realizare proiect	2013
Proiect PN – “Cercetari privind aplicarea metodelor de analiza izotopica si multi-element in vederea definirii autenticitatii si clasificarii geografice a vinurilor romanesti”	Responsabil proiect	2009 - 2011
Proiect PNII - „Definirea profilului aromatic al vinurilor din soiuri autohtone prin tehnici izotopice IRMS si gaz cromatografice, ca element de autentificare a acestor produse pe piata europeana”	Coordonator proiect	2008 - 2010
Proiect PNII – “Trasabilitatea alimentelor utilizand metode izotopice. Studiu de caz: mierea si vinul (IZOTRAS)”	Responsabil proiect	2008 - 2010
Proiect CNCIS – “Studii de optimizare a membranelor polimerice schimbatoare de protoni din pilele de combustie cu electrolit solid”	Coordonator proiect	2007 - 2008
PNCDI II - „Miniinstalatie de productie a energiei din surse regenerabile. Aplicatie pentru microunitati si ansambluri rezidentiale”	Participare realizare proiect	2007 - 2010
PNCDI II - "Sistem informatic fuzzy de simulare si evaluare a scenariilor de risc tehnologic si ecologic si a modurilor de actiune in contextul schimbarilor climatice"	Participare realizare proiect	2007 - 2010
PNCDI II - “Evaluarea si managementul zgomotului ambiental si a calitatii aerului intr-o arie pilot, periurbana, in interiorul careia exista mari obiective industriale si artere de trafic”	Participare realizare proiect	2007 - 2010
Proiect IMPACT - “Studiu de fezabilitate pentru Centrul National pentru Hidrogen si Pile de Combustie”	Coordonator proiect	2006
Proiect CEEX – Modul I – “Nanostructuri de materiale complexe, metal-semiconductor-dielectric, cu eficienta cantica optimizata la interactia cu radiatia solara – NANOLAYSOL”	Responsabil proiect	2006 - 2008
Proiect CEEX – Modul I – “Cercetari asupra dinamicii schimburilor de carbon intre atmosfera si biosfera terestra si a impactului lor asupra climei si mediului inconjurator”	Responsabil proiect	2006 - 2008
Proiect CNCIS - “Dezvoltarea unui model de calcul pentru managementul termic si al apei intr-o celula de combustibil cu membrana schimbatoare de protoni”	Coordonator proiect	2006 - 2007

Programul/Proiectul	Funcția	Perioada
Proiect PN - "Implementarea metodelor de analiza prin GC/MS a urmelor de pesticide si analiza izotopica a apei potabile, in vederea consolidarii aquis-ului comunitar de mediu in Romania"	Coordonator proiect	2006 - 2008
Proiect PN - "Analiza si optimizarea pilelor de combustie de tip PEM din punct de vedere constructiv si al managementului apei – caldurii utilizand programul specializat Fluent"	Participare realizare proiect	2006 - 2008
Proiect CEE-Modul I – "Managementul termic si al apei pentru sisteme de pile de combustie de tip PEM"	Participare realizare proiect	2006 - 2008
Proiect CEE-Modul III - „Promovarea si sustinerea integrarii cercetarii romanesti in domeniul conversiei energiei din surse noi si regenerabile in programul Platformei Tehnologice Europene de Hidrogen si Pile de Combustie"	Coordonator proiect	2006 - 2008
Proiect CEE-Modul III - „Promovarea integrarii colectivelor de cercetare romanesti din domeniul tehnologiilor pe baza de hidrogen si celulelor de combustie in programe de cercetare dezvoltate sub egida Platformei Tehnologice Europene pentru Hidrogen" - EuRogrove	Participare realizare proiect	2006 - 2008
Proiect CEE – Modul I - "Dezvoltarea si implementarea de noi solutii in vederea imbunatatirii performantelor pilelor de combustie cu membrana schimbatoare de protoni"	Participare realizare proiect	2005 - 2008
Proiect CEE-Modul III - „Promovarea participarii la programe europene de cercetare în domeniul hidrogenului si pilelor de combustie"	Responsabil proiect	2005-2007
Proiect Plan Sectorial - „Dezvoltarea platformelor integrate de cercetare pentru domeniul energetic"	Coordonator proiect	2004 - 2005
Proiect AGRAL - "Dezvoltarea si implementarea de noi tehnici de analiza izotopica pentru imbunatatirea serviciilor de analiza si control din industria viticola in vederea alinierii la cerintele impuse de UE"	Coordonator proiect	2004 - 2006
Proiect PN – "Sistem informational pentru luarea deciziilor destinate cresterii sigurantei in exploatare a instalatiilor de separare a izotopilor hidrogenului"	Participare realizare proiect	2003 - 2005
Proiect PN – "Dezvoltarea unui sistem de procesare si extractie a hidrogenului pur – analiza proceselor fizico-chimice implicate in vederea optimizarii unui sistem compact la scara redusa"	Participare realizare proiect	2003 - 2005
Proiect PN – "Permeabilitatea izotopilor hidrogenului prin membrane metalice si nonmetalice microporoase"	Coordonator proiect	2003 - 2005
Proiect CERES – "Analiza teoretica si experimentală privind producerea de izotopi ai hidrogenului prin procese de permeatie si difuzie termica"	Coordonator proiect	2003 - 2005
Proiect CERES – "Analiza teoretica a separarilor izotopice prin filtrare cuantica pentru diferite materiale compozite"	Participare realizare proiect	2003 - 2005
Proiect MENER – "Cercetari privind prezenta gaz-hidratilor in Marea Neagra si evaluarea importantei lor economice"	Responsabil proiect	2002 - 2005
Proiect MENER – "Tehnologie de conversie si stocare a energiei utilizand celule de combustibil cu hidrogen, pentru telecomunicatii"	Coordonator proiect	2002 - 2004
Proiect MENER – "Sistem integrat de productie a energiei electrice pe baza de celule cu combustibil de hidrogen si membrana schimbatoare de protoni"	Participare realizare proiect	2001 - 2004
Proiect MENER – "Determinarea nivelului radionuclizilor cu semnificatie radioecologica majora in mediul acvatic si dezvoltarea unui model izotopic hidrodinamic pe baza utilizarii tritiului si C14 ca radiotrasori, in vederea evaluarii impactului radioecologic asupra populatiei"	Participare realizare proiect	2001 - 2004
Proiect MENER – "Sistem GIS de monitorizare a calitatii aerului si de evaluare a inventarului de gaze toxice intr-o zona urbana"	Coordonator proiect	2001 - 2004
Proiect RELANSIN – "Elaborarea unei strategii de investigare a surselor de apa minerala in vederea stabilirii genezei si gradului de protectie la factorii de mediu perturbatori prin metodologii izotopice"	Participare realizare proiect	2001 - 2002
Proiect RELANSIN – "Evaluarea riscului in stocarea si transportul substantelor periculoase – factor primordial in prevenirea si reducerea poluarii mediului"	Participare realizare proiect	2000 - 2002
B4 C573/2000 "Elaborarea unui model de decizie pentru evaluarea impactului de mediu generat de activitati nucleare"	Participare realizare proiect – Responsabil etapa	2000 - 2002
C92/1996 "Metode de evaluare a riscului in fabricile de apa grea"	Participare realizare proiect – Responsabil etapa	1996 - 1999

Brevete

1. *„Debitmetru diferential pentru amestecuri bifazice de fluide”*, autori Ionete E.I., Ionete R.E., Monea B.F., Brevet de inventie nr. 129019 din 28.12.2018 (Hotararea 4/218/28.09.2018)
2. *„Procedure for isotopic fingerprinting of flavour compounds in liquid samples, in particular wine”*, authors Ionete R.E., Popescu R., Costinel D., Stefanescu I., patent accorded by the Resolution 3/173 of 29/07/2016 issued by OSIM.
3. *„Fuel cell assembly with proton exchange membrane”*, authors: Dumitru Mirica, Mihai Culcer, Laurentiu Patularu, Ionete (Lazar) Roxana Elena, Ebrasu (Stoenescu) Daniela, Ioan Stefanescu, Vasile Stanciu; Patent nr. 123422/30.03.2012

Cereri de brevete:

1. Cerere de brevet de inventie nr. A/00390/31.05.2018, cu titlul *„Uscator solar cu extractor de umiditate”* autori Ionete R.E., Ionete E.I., Spiridon S.I. si Constantinescu M., in cadrul proiectului *PN 18 12 03 02* *„Cercetari privind dezvoltarea de metode analitice avansate de investigare a produselor alimentare ecologice de origine vegetala sau animala*, ctr. 1N/16.03.2018, faza II/2018.
2. Cerere de brevet de inventie nr. A/00848/29.10.2018, cu titlul *„Instalatie de Valorificare a Deseurilor din Plastic”*, autori Roxana Elena Ionete, Eusebiu Ilarian Ionete, Stefan Ionut Spiridon, Marius Constantinescu, Felicia Bucura, Marius Gheorghe Miricioiu, rezultat al proiectului, PN-III-P2-2.1-CI-2018-0954 (ctr. Nr. 159CI/2018) - Deseurile din plastic vector de energie - ENERGLAS
3. RO129629-A2/2014 *„Mixing device for miscible liquids, includes outer coating and number of minimum two interior cylindrical elements, arranged in regular geometrical form, having orifices with covered heads”*, authors: Eusebiu Ilarian Ionete, Roxana Elena Ionete, Bogdan Monea
4. RO129019-A2/2013 *„Flowmeter for biphasic solid-liquid mixture of cryogenic fluid in particular nitrogen and hydrogen”*, authors: Eusebiu Ilarian Ionete, Roxana Elena Ionete, Bogdan Monea



1. Varlam Carmen, Dului Octavian, **Ionete Roxana Elena**, Costinel Diana (2020) Time series analysis of the $\delta^2\text{H}$, $\delta^{18}\text{O}$ and d-excess values in correlation with monthly temperature, relative humidity and precipitation in Râmnicu Vâlcea, Romania: 2012 to 2018, doi: 10.1144/SP507-2020-56, Published by Geological Society, London, Special Publications, Print ISSN 0305-8719, Online ISSN 2041-4927.
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4. Cezara Voica, Andreea Maria Iordache, **Roxana Elena Ionete**, Ioan Ștefănescu, chapter "Aspects on the Accumulation of Trace Metals in Various Environmental Matrices (Water, Soil, Plant and Sediments). Case Study on Catchment Area of the Somes River, Romania." in "Water Quality" Ed. InTech, book edited by Hlanganani Tutu, ISBN 978-953-51-2882-3, Print ISBN 978-953-51-2881-6, Published: January 18, 2017.
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1. Diploma de excelenta – Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, Pro Invent Editia XVII, 20 -22 martie 2019, Cluj Napoca - pentru cererea de brevet: Uscator Solar cu extrecator de umiditate, autori: Roxana Elena Ionete, Ionete Eusebiu Ilarian, Stefan Ionut Spiridon, Marius Constantinescu
2. „Best poster award” at the XIVth International Workshop of the European Society for Isotope Research ESIR 2017, 25-29.06.2017, Baile Govora, Romania, for the paper „*Application of Chemometric Techniques in Stable Isotope Evaluation*”, authors Oana Romina Botoran, Roxana Elena Ionete, Diana Costinel, Raluca Popescu
3. Excellence diploma and gold medal for the patent „*Procedure for isotopic fingerprinting of flavour compounds in liquid samples, in particular wine*”, authors Ionete Roxana Elena, Costinel Diana, Popescu Raluca, Ștefănescu Ioan, at the International Fair for Inventions and Practical Ideas INVENT-INVEST 2016, 15-18.09.2016.
4. Best poster Award offered by the National Food Chain Safety Office, president of the organising committee Arpad Ambrus, Ungaria, for the paper „*Assessing the Traceability and Authenticity of Fruit Juices in terms of Isotopic Fingerprinting*”, authors Botoran Oana-Romina, Diana Costinel, Raluca Popescu, Ioan Stefanescu, Roxana Elena Ionete, at the 2nd International Conference on Food Safety and Regulatory Measures, Londra, UK, 06 – 08 Iunie 2016.
5. Best poster Award offered by the International Wine Professional Network, president of the organising committee Mark T. Norman, USA, for the paper „*Multi-compound isotope profiling - an approach to differentiate the varietal origin and harvest year of wines*”, authors: Botoran Oana-Romina, Costinel Diana, Popescu Raluca, Geana Irina-Elisabeta, Ionete Roxana-Elena, at the 3rd European Food Safety and Standards Conference, Valencia, Spania, 24 – 25 Octombrie 2016.
6. Best poster Award offered by the Romanian International Chapter of ACS. Chemistry for Life, for the paper “*Characterization and Botanical Classification of Romanian Honeys*” authors Popescu Raluca, Geana Elisabeta Irina, Dinca Oana Romina, Sandru Claudia, Costinel Diana, Ionete Roxana Elena at the 3rd International Conference „Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences” Brasov, Romania, 13 - 15 Iunie 2014
7. „Best poster award” at the XLIII Annual Meeting of the European Society for New Methods in Agricultural Research 3rd-6th September 2014, Bolzano, Italy, for the paper “*The use of isotopic and multi-element pattern in the soil-plant system as tool for fruit juices authentication in terms of geographical origin*”, authors Oana Romina Dinca, Roxana Elena Ionete*, Diana Costinel, Raluca Popescu, Irina-Elisabeta Geana, Radu Tamaian, Gabriel Lucian Radu
8. PLAQUETTES AGRO ARCA for the paper “*Wine Authentication – Aromas Fingerprinting*”, authors: Ionete Roxana Elena, Costinel Diana, Vremera Raluca, Ioan Stefanescu, Stanciu Vasile, awarded to the 3rd International Fair on Innovation, New Ideas, Products and Technologies in Agriculture and Food Industry, May 2010, Slatina, Croatia
9. Silver Medal at the International Exhibition of Inventions in Geneva, 2008, for “*Pile de cellules de carburant avec une membrane à échange de protons*”
10. Gold Medal with Mention in International Competition dedicated to invention Brussels - Eureka 2007, organized within INNOVA ENERGY Fair, for the paper “*Fuel cell stack with proton exchange membrane*”
11. Gold Medal at the International Fair of Inventions and New Technologies - INVENTICA 2007, for the paper “*PEM fuel cell assembly*”
12. Gold Medal at the Fair of Inventors in Croatia - ARCA 2007, for the paper “*Fuel cell stack with proton exchange membrane*”
13. First Prize awarded by the National Authority for Scientific Research – Romania, for the fundamental research project “*Conversion technologies and energy storage in hydrogen fuel cells*”, Bucharest 2005

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