

Nr. 1082/16.01.2024

REGISTRUL DE EVIDENȚĂ
a rezultatelor activităților de cercetare-dezvoltare
Anul 2022; Anul 2023

Rector,
Prof. dr. ing. Puiu Lucian GEORGESCU

Director economic
Ec. Daniela Modiga

Fișa de Evidență Nr. 1 din 08/01/2024

a rezultatelor activităților de cercetare-dezvoltare

A. Date Generale

Cod Proiect	PN-III-P4-ID-PCE-2020-1268
Denumirea proiectului	Concepte emergente noi pentru funcționalizarea alimentelor, prin tranziția de la probiotice la metabiotice, ca strategie de promovare a sănătății (Biotics+)
Categoria de proiect	P 4 - Proiecte de Cercetare Exploratorie, 2020
Plan/Program/Competiție	P 4 - Proiecte de Cercetare Exploratorie, 2020
Data începerii / Data finalizare	04/01/2021 - 31/12/2023
Contract de finanțare	nr. PCE 159 din
Valoarea totală a proiectului (include și alte surse)	1.198.032,00 lei
Valoarea contractului de finanțare (buget de stat)	1.198.032,00 lei
Parteneriat / Consorțiu	- Contractor - UNIVERSITATEA "DUNAREA DE JOS"

B. Date specifice

Conform OMECI nr. 3845/2009 cu modificările și completările ulterioare

1. Denumirea rezultatului/rezultatelor

- Kombucha and Water Kefir Grains Microbiomes' Symbiotic Contribution to Postbiotics Enhancement [Articol ISI]
- SELECTION OF NEW LACTOBACILLI STRAINS WITH POTENTIALLY PROBIOTIC PROPERTIES [Articol ISI]
- Tailoring the Optimized Fermentation Conditions of SCOBY-Based Membranes and Milk Kefir Grains to Promote Various Functional Properties [Articol ISI]
- Novel insights into different kefir grains usefulness as valuable multiple starter cultures to achieve bioactive gluten-free sourdoughs [Articol ISI]
- Novel Insights for Metabiotics Production by Using Artisanal Probiotic Cultures [Articol ISI]
- Inactivation kinetics of Lactiplantibacillus plantarum MIUG BL21 as prerequisites for paraprobiotics production: evidences on cytocompatibility and antitumoral potential. [Articol ISI]
- Lactiplantibacillus plantarum and Lactiplantibacillus paraplantarum postbiotics: assessment of the biotic-derived metabolites with cytocompatibility and antitumoral potential. [Articol ISI]
- Statistical Approach to Potentially Enhance the Postbiotication of Gluten-Free Sourdough [Articol ISI]
- Statistical Approach to Potentially Enhance the Postbiotication of Gluten-Free Sourdough [Articol ISI]
- Procedee de obținere a unor ingrediente metabiotice cu proprietăți bioactive pe bază de colostru bovin și bacterii lactice cu potențial probiotic din genul Lactiplantibacillus spp. [Conference Proceeding - Poster]
- Inactivation kinetics of Lactobacillus plantarum MIUG BL21 by different treatments to produce paraprobiotics. [Conference Proceeding - Poster]
- Tribiotic exopolysaccharides from a selected Lactiplantibacillus paraplantarum probiotic strain [Conference Proceeding - Poster]

- Gluten-free flours' metabiotication as an effect of probiotics and paraprobiotics. [Conference Proceeding - Poster]
- Probiotics survival in paraprobiotics-enriched fermented products after freeze-drying [Conference Proceeding - Poster]
- Efectul germinării și fermentării asupra biodisponibilității compușilor biologic activi din produse de panificație fără gluten. [Conference Proceeding - Prezentare orală]
- Metabiotics production by fermenting gluten-free flours and okara with probiotics and added paraprobiotics [Conference Proceeding - Poster]
- The combined effect of probiotics and paraprobiotics to improve bioactive properties of fermented bovine colostrum [Conference Proceeding - Poster]
- Biotics+: New emerging concepts for food functionalization as a health promoting strategy. [Conference Proceeding - Prezentare orală]
- Postbiotication and Paraprobiotication: New paradigms for food grade ingredients and food functionalization [Conference Proceeding - Poster]
- Lactiplantibacillus paraplantarum paraprobiotics resulted from thermal and high pressure inactivation: a kinetic approach. [Conference Proceeding - Poster]
- Soluții biotehnologice eficiente pentru obținerea aluaturilor acide cu proprietăți biotice îmbunătățite. [Conference Proceeding - Prezentare orală]
- New strategy to develop metabiotic sourdoughs for gluten-free bread functionalization (Paper No. ICBB 030, DOI: 10.11159/icbb22.030). [Conference Proceeding - Poster]
- Effects of gluten-free breads supplementation with sourdoughs involving unconventional starters. [Conference Proceeding - Poster]
- Symbio-functionality of two artisanal cultures co-fermentation. [Conference Proceeding - Poster]
- Study of newly lactobacilli strains to be used as delivery systems for metabiotics. [Conference Proceeding - Prezentare orală]
- Metabiotics: novel insights for tailoring the futures of functional foods. [Conference Proceeding - Prezentare orală]
- Study on the newly lactic acid bacteria strains for their probiotic behaviour. [Conference Proceeding - Poster]
- Increasing the usage of agro-food byproducts through lactobacillus spp. Fermentation by using the Plackett-Burman design. [Conference Proceeding - Poster]
- Biotechnological parameters with impact on bovine colostrum tribiotication by fermentation with selected lactic acid bacteria. [Conference Proceeding - Poster]
- BIOTICS+: From concepts to applications for generation of innovative tailored functional food. [Conference Proceeding - Poster]
- Study on the newly lactic acid bacteria strains for their probiotic behaviour. [Conference Proceeding - Poster]
- Increasing the usage of agro-food byproducts through lactobacillus spp. Fermentation by using the Plackett-Burman design. [Conference Proceeding - Poster]
- Biotechnological parameters with impact on bovine colostrum tribiotication by fermentation with selected lactic acid bacteria. [Conference Proceeding - Poster]
- BIOTICS+: From concepts to applications for generation of innovative tailored functional food. [Conference Proceeding - Poster]
- Lactic acid bacteria isolated from the artisanal cultures as postbiotics promoters by fermentation of unconventional substrates. [Conference Proceeding - Poster]
- Enhancement of the postbiotics production by lactic acid bacteria on agri-food residual substrates. [Conference Proceeding - Poster]
- Postbiotic composition of the bovine colostrum improved by lactic acid fermentation in optimized conditions. [Conference Proceeding - Poster]

- Lactic acid bacteria isolated from the artisanal cultures as postbiotics promoters by fermentation of unconventional substrates. [Conference Proceeding - Poster]
- Enhancement of the postbiotics production by lactic acid bacteria on agri-food residual substrates. [Conference Proceeding - Poster]
- Postbiotic composition of the bovine colostrum improved by lactic acid fermentation in optimized conditions. [Conference Proceeding - Poster]
- Introduction to sourdough enzymology [[Capitol din cartea: Sourdough Innovations Novel Uses of Metabolites, Enzymes, and Microbiota from Sourdough Processing]
- Procedeu de obținere al unui produs de panificație fără gluten pe bază de leguminoase, pseudocereale și metabiotice. [Brevet - Cerere depusă]
- Procedee de obținere a unor ingrediente metabiotice cu proprietăți bioactive pe bază de colostru bovin și bacterii lactice cu potențial probiotic din genul Lactiplantibacillus spp. [Brevet - Cerere depusă]

2. Categoria rezultatului (conform art. 74, nr. O.G. 57/2002)

Tip	Rezultat final	Detalii
-----	----------------	---------

2.1. documentații, studii, lucrări	[X]	<ul style="list-style-type: none"> - Kombucha and Water Kefir Grains Microbiomes' Symbiotic Contribution to Postbiotics Enhancement [Articol ISI] - SELECTION OF NEW LACTOBACILLI STRAINS WITH POTENTIALLY PROBIOTIC PROPERTIES [Articol ISI] - Tailoring the Optimized Fermentation Conditions of SCOBY-Based Membranes and Milk Kefir Grains to Promote Various Functional Properties [Articol ISI] - Novel insights into different kefir grains usefulness as valuable multiple starter cultures to achieve bioactive gluten-free sourdoughs [Articol ISI] - Novel Insights for Metabiotics Production by Using Artisanal Probiotic Cultures [Articol ISI] - Inactivation kinetics of Lactiplantibacillus plantarum MIUG BL21 as prerequisites for paraprobiotics production: evidences on cytocompatibility and antitumoral potential. [Articol ISI] - Lactiplantibacillus plantarum and Lactiplantibacillus paraplantarum postbiotics: assessment of the biotic-derived metabolites with cytocompatibility and antitumoral potential. [Articol ISI] - Statistical Approach to Potentially Enhance the Postbiotification of Gluten-Free Sourdough [Articol ISI] - Statistical Approach to Potentially Enhance the Postbiotification of Gluten-Free Sourdough [Articol ISI] - Procedee de obținere a unor ingrediente metabiotice cu proprietăți bioactive pe bază de colostru bovin și bacterii lactice cu potențial probiotic din genul Lactiplantibacillus spp. [Conference Proceeding - Poster] - Inactivation kinetics of Lactobacillus plantarum MIUG BL21 by different treatments to produce paraprobiotics. [Conference Proceeding - Poster] - Tribiotic exopolysaccharides from a selected Lactiplantibacillus paraplantarum probiotic strain [Conference Proceeding - Poster] - Gluten-free flours' metabiotification as an effect of probiotics and paraprobiotics. [Conference Proceeding - Poster] - Probiotics survival in paraprobiotics-enriched fermented products after freeze-drying [Conference Proceeding - Poster] - Efectul germinării și fermentării asupra biodisponibilității compușilor biologic activi din produse de panificație fără gluten. [Conference Proceeding - Prezentare orală] - Metabiotics production by fermenting gluten-free flours and okara with probiotics and added paraprobiotics [Conference Proceeding - Poster] - The combined effect of probiotics and paraprobiotics to improve bioactive properties of fermented bovine colostrum [Conference Proceeding - Poster] - Biotics+: New emerging concepts for food functionalization as a health promoting strategy. [Conference Proceeding - Prezentare orală] - Postbiotification and Paraprobiotification: New paradigms for food grade ingredients and food functionalization [Conference Proceeding - Poster] - Lactiplantibacillus paraplantarum paraprobiotics resulted from thermal and high pressure inactivation: a kinetic approach. [Conference Proceeding - Poster] - Soluții biotehnologice eficiente pentru obținerea aluaturilor acide cu proprietăți biotice îmbunătățite. [Conference Proceeding - Prezentare orală] - New strategy to develop metabiotic sourdoughs for gluten-free bread functionalization (Paper No. ICBB 030, DOI: 10.11159/icbb22.030). [Conference Proceeding - Poster] - Effects of gluten-free breads supplementation with sourdoughs involving unconventional starters. [Conference Proceeding - Poster] - Symbio-functionality of two artisanal cultures co-fermentation. [Conference Proceeding - Poster] - Study of newly lactobacilli strains to be used as delivery systems for metabiotics. [Conference Proceeding - Prezentare orală] - Metabiotics: novel insights for tailoring the futures of functional foods. [Conference Proceeding - Prezentare orală] - Study on the newly lactic acid bacteria strains for their probiotic behaviour. [Conference Proceeding - Poster] - Increasing the usage of agro-food byproducts through lactobacillus spp. Fermentation by using the Plackett-Burman design. [Conference Proceeding - Poster] - Biotechnological parameters with impact on bovine colostrum tribiotification by fermentation with selected lactic acid bacteria. [Conference Proceeding - Poster] - BIOTICS+: From concepts to applications for generation of innovative tailored functional food. [Conference Proceeding - Poster] - Study on the newly lactic acid bacteria strains for their probiotic behaviour. [Conference Proceeding - Poster] - Increasing the usage of agro-food byproducts through lactobacillus spp. Fermentation by using the Plackett-Burman design. [Conference Proceeding - Poster] - Biotechnological parameters with impact on bovine colostrum tribiotification by fermentation with selected lactic acid bacteria. [Conference Proceeding - Poster] - BIOTICS+: From concepts to applications for generation of innovative tailored functional food. [Conference Proceeding - Poster] - Lactic acid bacteria isolated from the artisanal cultures as postbiotics promoters by fermentation of unconventional substrates. [Conference Proceeding - Poster] - Enhancement of the postbiotics production by lactic acid bacteria on agri-food residual substrates. [Conference Proceeding - Poster] - Postbiotic composition of the bovine colostrum improved by lactic acid fermentation in optimized conditions. [Conference Proceeding - Poster] - Lactic acid bacteria isolated from the artisanal cultures as postbiotics promoters by fermentation of unconventional substrates. [Conference Proceeding - Poster] - Enhancement of the postbiotics production by lactic acid bacteria on agri-food residual substrates. [Conference Proceeding - Poster] - Postbiotic composition of the bovine colostrum improved by lactic acid fermentation in optimized conditions. [Conference Proceeding - Poster] - Introduction to sourdough enzymology [[Capitol din cartea: Sourdough Innovations Novel Uses of Metabolites, Enzymes, and Microbiota from Sourdough Processing]
2.2. planuri, scheme	[-]	
2.3. tehnologii	[-]	
2.4. procedee, metode	[-]	
2.5. produse informatice	[-]	

2.6. rețete, formule	[-]	
2.7. obiecte fizice/produse	[-]	
2.8. brevet invenție/altele asemenea	[X]	- Procedeu de obținere al unui produs de panificație fără gluten pe bază de leguminoase, pseudocereale și metabiotice. [Brevet - Cerere depusă] - Procedee de obținere a unor ingrediente metabiotice cu proprietăți bioactive pe bază de colostru bovin și bacterii lactice cu potențial probiotic din genul Lactiplantibacillus spp. [Brevet - Cerere depusă]
2.9. colecții și baze de date	[-]	
2.10. creații biologice noi în domeniul producției vegetale și producției animale	[-]	

3. Nivel de maturitate tehnologică (TRL)

TRL 1 - Principii de bază observate	[-]	
TRL 2 - Formularea conceptului tehnologic	[-]	
TRL 3 - Demonstrarea conceptului privind funcționalitățile critice sau caracteristicile la nivel analitic sau experimental	[-]	
TRL 4 - Validarea componentelor și/sau a ansamblului în condiții de laborator	[-]	
TRL 5 - Validarea componentelor și/sau a ansamblului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 6 - Demonstrarea funcționalității modelului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 7 - Demonstrarea funcționalității prototipului în condiții relevante de funcționare	[-]	
TRL 8 - Sisteme finalizate și calificate	[-]	
TRL 9 - Sisteme a căror funcționalitate a fost demonstrată în mediul operațional	[-]	
Nu e cazul / Nu se aplică	[-]	

4. Domeniul de cercetare

1. Tehnologiile societății informaționale	[-]	
2. Energie	[-]	
3. Mediu	[-]	
4. Sănătate	[-]	
5. Agricultură, securitatea și siguranța alimentară	[-]	
6. Biotehnologii	[-]	
7. Materiale, procese și produse inovative	[-]	
8. Spațiu și securitate	[-]	
9. Cercetări socioeconomice și umaniste	[-]	
10. Altele	[-]	

5. Domenii de aplicabilitate

N/A

6. Caracterul inovativ

6.1. produs nou	[-]	
6.2. produs modernizat	[-]	
6.3. tehnologie nouă	[-]	
6.4. tehnologie modernizată	[-]	
6.5. serviciu nou	[-]	

6.6. serviciu modernizat	[-]	
--------------------------	-----	--

7. Valorificare

N/A

C. INFORMAȚII PRIVIND PROPRIETATEA INTELECTUALĂ

1.2 cerere înregistrare brevet de invenție	[X]	- Procedeu de obținere al unui produs de panificație fără gluten pe bază de leguminoase, pseudocereale și metabiotice. [Brevet - Cerere depusă] Nr. cerere: A00440 din 10/08/2023 - Procedee de obținere a unor ingrediente metabiotice cu proprietăți bioactive pe bază de colostru bovin și bacterii lactice cu potențial probiotic din genul Lactiplantibacillus spp. [Brevet - Cerere depusă] Nr. cerere: A00411 din 27/07/2023
1.3 brevet de invenție înregistrate (național, european, internațional)	[-]	
1.4 cerere înregistrare modele și desene industriale protejate	[-]	
1.5 modele și desene industriale protejate înregistrate (național, european, internațional)	[-]	
1.6 Cerere înregistrare marcă înregistrată	[-]	
1.7 mărci înregistrate (național, european, internațional)	[-]	
1.8 cerere înregistrare copyright	[-]	
1.9 înregistrare copyright (național, european, internațional)	[-]	
1.10 cerere înregistrare: rețete, indicații geografice, specii vegetale și animale, etc.	[-]	
1.1 înregistrare: rețete, indicații geografice, specii vegetale și animale, etc. (național, european, internațional)	[-]	

D. INFORMAȚII PRIVIND DOCUMENTAȚIILE, COLECȚIILE ȘI BAZELE DE DATE DE INTERES NAȚIONAL

Denumire	Descriere	Categorie	Arhivare	Alte informații
----------	-----------	-----------	----------	-----------------

Fișa de Evidență Nr. 2 din 09/01/2024

a rezultatelor activităților de cercetare-dezvoltare

A. Date Generale

Cod Proiect	PN-III-P2-2.1-PED-2019-1480
Denumirea proiectului	Sistem inovativ pentru monitorizarea mediului aerian și acvatic (AWISEM)
Categoria de proiect	P 2 - SP 2.1 - Proiect experimental - demonstrativ
Plan/Program/Competiție	P 2 - SP 2.1 - Proiect experimental - demonstrativ
Dată începere / Dată finalizare	09/11/2020 - 08/11/2022
Contract de finanțare	nr. 459PED din
Valoarea totală a proiectului (include și alte surse)	600.000,00 lei
Valoarea contractului de finanțare (buget de stat)	600.000,00 lei
Parteneriat / Consorțiu	- Coordonator (CO) - UNIVERSITATEA "DUNAREA DE JOS" - Partener (P1) - INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI - INFLPR RA

B. Date specifice

Conform OMECI nr. 3845/2009 cu modificările și completările ulterioare

1. Denumirea rezultatului/rezultatelor

- High-Sensitivity Ammonia Sensors with Carbon Nanowall Active Material via Laser-Induced Transfer [Articol ISI]
- Nitrites Detection with Sensors Processed via Matrix-Assisted Pulsed Laser Evaporation. Nanomaterials [Articol ISI]
- CONSIDERATIONS ON THE CURRENT STATE OF SENSORS ATTACHED TO DRONES APPLICATIONS IN ENVIRONMENTAL QUALITY MONITORING [Articol BDI]
- Shaping in the Third Direction; Synthesis of Patterned Colloidal Crystals by Polyester Fabric-Guided Self-Assembly [Articol ISI]
- CURRENT CHALLENGES AND PROSPECTIVE BENEFITS OF USING UAVs [Articol BDI]
- Shaping in the Third Direction; Synthesis of Patterned Colloidal Crystals by Polyester Fabric-Guided Self-Assembly [Articol ISI]
- Design of a mobile platform for monitoring the aerial and aquatic environment [Articol BDI]
- Sensing membranes based on CNT nanocomposites processing for air and water monitoring [Articol BDI]
- Nitrites detection with sensors processed by MAPLE technique [Articol ISI]
- Coandă effect aerodyne - a new platform fit for monitoring environment in wetlands using sensing membranes based on CNT [Conference Proceeding - Prezentare orală]
- Processing of electrochemical sensors by matrix-assisted pulsed laser evaporation (MAPLE) for nitrites detection in water [Conference Proceeding - Poster]
- Sensors processed by MAPLE technique for contaminants detection [Conference Proceeding - Prezentare orală]
- DESIGN OF A SYSTEM DRONE-SENSORS WITH APPLICATIONS IN PRECISION AGRICULTURE [Conference Proceeding - Prezentare orală]
- Design of a mobile platform for monitoring the aerial and aquatic environment [Conference

Proceeding - Prezentare orală]

- Sensing membranes based on CNT nanocomposites processing for air and water monitoring

[Conference Proceeding - Prezentare orală]

- Laser fabricated coatings for biomedicine [Conference Proceeding - Prezentare orală]

- Vehicul aerian ce se deplaseaza folosind curgerea jetului de aer de-a lungul unui profil aerodinamic

[Brevet - Cerere depusă]

- VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE

[Brevet - Cerere depusă]

- VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE

[Brevet - Cerere depusă]

2. Categoria rezultatului (conform art. 74, nr. O.G. 57/2002)

Tip	Rezultat final	Detalii
2.1. documentații, studii, lucrări	[X]	<ul style="list-style-type: none"> - High-Sensitivity Ammonia Sensors with Carbon Nanowall Active Material via Laser-Induced Transfer [Articol ISI] - Nitrites Detection with Sensors Processed via Matrix-Assisted Pulsed Laser Evaporation. Nanomaterials [Articol ISI] - CONSIDERATIONS ON THE CURRENT STATE OF SENSORS ATTACHED TO DRONES APPLICATIONS IN ENVIRONMENTAL QUALITY MONITORING [Articol BDI] - Shaping in the Third Direction; Synthesis of Patterned Colloidal Crystals by Polyester Fabric-Guided Self-Assembly [Articol ISI] - CURRENT CHALLENGES AND PROSPECTIVE BENEFITS OF USING UAVs [Articol BDI] - Shaping in the Third Direction; Synthesis of Patterned Colloidal Crystals by Polyester Fabric-Guided Self-Assembly [Articol ISI] - Design of a mobile platform for monitoring the aerial and aquatic environment [Articol BDI] - Sensing membranes based on CNT nanocomposites processing for air and water monitoring [Articol BDI] - Nitrites detection with sensors processed by MAPLE technique [Articol ISI] - Coandă effect aerodyne - a new platform fit for monitoring environment in wetlands using sensing membranes based on CNT [Conference Proceeding - Prezentare orală] - Processing of electrochemical sensors by matrix-assisted pulsed laser evaporation (MAPLE) for nitrites detection in water [Conference Proceeding - Poster] - Sensors processed by MAPLE technique for contaminants detection [Conference Proceeding - Prezentare orală] - DESIGN OF A SYSTEM DRONE-SENSORS WITH APPLICATIONS IN PRECISION AGRICULTURE [Conference Proceeding - Prezentare orală] - Design of a mobile platform for monitoring the aerial and aquatic environment [Conference Proceeding - Prezentare orală] - Sensing membranes based on CNT nanocomposites processing for air and water monitoring [Conference Proceeding - Prezentare orală] - Laser fabricated coatings for biomedicine [Conference Proceeding - Prezentare orală]
2.2. planuri, scheme	[-]	
2.3. tehnologii	[-]	
2.4. procedee, metode	[-]	
2.5. produse informatice	[-]	
2.6. rețete, formule	[-]	
2.7. obiecte fizice/produse	[-]	

2.8. brevet invenție/alte asemenea	[X]	- Vehicul aerian ce se deplasează folosind curgerea jetului de aer de-a lungul unui profil aerodinamic [Brevet - Cerere depusă] - VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE [Brevet - Cerere depusă] - VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE [Brevet - Cerere depusă]
2.9. colecții și baze de date	[-]	
2.10. creații biologice noi în domeniul producției vegetale și producției animale	[-]	

3. Nivel de maturitate tehnologică (TRL)

TRL 1 - Principii de bază observate	[-]	
TRL 2 - Formularea conceptului tehnologic	[-]	
TRL 3 - Demonstrarea conceptului privind funcționalitățile critice sau caracteristicile la nivel analitic sau experimental	[-]	
TRL 4 - Validarea componentelor și/sau a ansamblului în condiții de laborator	[-]	
TRL 5 - Validarea componentelor și/sau a ansamblului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 6 - Demonstrarea funcționalității modelului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 7 - Demonstrarea funcționalității prototipului în condiții relevante de funcționare	[-]	
TRL 8 - Sisteme finalizate și calificate	[-]	
TRL 9 - Sisteme a căror funcționalitate a fost demonstrată în mediul operațional	[-]	
Nu e cazul / Nu se aplică	[-]	

4. Domeniul de cercetare

1. Tehnologiile societății informaționale	[-]	
2. Energie	[-]	
3. Mediu	[-]	
4. Sănătate	[-]	
5. Agricultură, securitatea și siguranța alimentară	[-]	
6. Biotehnologii	[-]	
7. Materiale, procese și produse inovative	[-]	
8. Spațiu și securitate	[-]	
9. Cercetări socioeconomice și umaniste	[-]	
10. Altele	[-]	

5. Domenii de aplicabilitate

N/A

6. Caracterul inovativ

6.1. produs nou	[-]	
6.2. produs modernizat	[-]	

6.3. tehnologie nouă	[-]	
6.4. tehnologie modernizată	[-]	
6.5. serviciu nou	[-]	
6.6. serviciu modernizat	[-]	

7. Valorificare

N/A

C. INFORMAȚII PRIVIND PROPRIETATEA INTELECTUALĂ

1.1 documentație tehnico-economică	[X]	
1.2 cerere înregistrare brevet de invenție	[X]	- Vehicul aerian ce se deplasează folosind curgerea jetului de aer de-a lungul unui profil aerodinamic [Brevet - Cerere depusă] Nr. cerere: A/00581 din 23/09/2022 - VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE [Brevet - Cerere depusă] Nr. cerere: CBI A/00293/2021 din 27/05/2021 - VEHICUL AERIAN CE UTILIZEAZĂ EFECTUL GAZODINAMIC AL CURGERII JETURILOR DE AER DE-A LUNGUL UNUI PERETE PROFILAT ÎN SCOPUL CREȘTERII FORȚEI DE SUSTENTAȚIE [Brevet - Cerere depusă] Nr. cerere: CBI A/00293/2021 din 27/05/2021
1.3 brevet de invenție înregistrate (național, european, internațional)	[-]	
1.4 cerere înregistrare modele și desene industriale protejate	[-]	
1.5 modele și desene industriale protejate înregistrate (național, european, internațional)	[-]	
1.6 Cerere înregistrare marcă înregistrată	[-]	
1.7 mărci înregistrate (național, european, internațional)	[-]	
1.8 cerere înregistrare copyright	[-]	
1.9 înregistrare copyright (național, european, internațional)	[-]	
1.10 cerere înregistrare: rețete, indicații geografice, specii vegetale și animale, etc.	[-]	
1.1 înregistrare: rețete, indicații geografice, specii vegetale și animale, etc. (național, european, internațional)	[-]	

D. INFORMAȚII PRIVIND DOCUMENTAȚIILE, COLECȚIILE ȘI BAZELE DE DATE DE INTERES NAȚIONAL

Denumire	Descriere	Categorie	Arhivare	Alte informații
----------	-----------	-----------	----------	-----------------

Fișa de Evidență Nr. 3 din 09/01/2024

a rezultatelor activităților de cercetare-dezvoltare

A. Date Generale

Cod Proiect	PN-III-P4-ID-PCE-2020-0008
Denumirea proiectului	Dinamica RESurselor si Avansul tehnologic in extragerea energiei regenerabile din mediul Marin (DREAM)
Categoria de proiect	P 4 - Proiecte de Cercetare Exploratorie, 2020
Plan/Program/Competiție	P 4 - Proiecte de Cercetare Exploratorie, 2020
Data începerii / Data finalizare	04/01/2021 - 31/12/2023
Contract de finanțare	nr. PCE 169 din
Valoarea totală a proiectului (include și alte surse)	1.036.522,00 lei
Valoarea contractului de finanțare (buget de stat)	1.036.522,00 lei
Parteneriat / Consorțiu	- Contractor - UNIVERSITATEA "DUNAREA DE JOS"

B. Date specifice

Conform OMECI nr. 3845/2009 cu modificările și completările ulterioare

1. Denumirea rezultatului/rezultatelor

- The Expected Dynamics of the European Offshore Wind Sector in the Climate Change Context [Articol ISI]
- Performance Analysis of Harmonic-Reduced Modified PUC Multi-Level Inverter Based on an MPC Algorithm [Articol ISI]
- Romanian Energy System Analysis (Production, Consumption, and Distribution) [Articol ISI]
- On the particularities of the maritime education [Articol BDI]
- A technical-economic analysis regarding the efficiency of a photovoltaic system with energy storage in accumulator batteries compared to injection into the national energy system [Articol BDI]
- Turpentine as an Additive for Diesel Engines: Experimental Study on Pollutant Emissions and Engine Performance [Articol ISI]
- An evaluation of the expected wind dynamics in the black sea in the context of the climate change [Articol BDI]
- Pharmacophore-Modeling-Based Optimal Placement and Sizing of Large-Scale Energy Storage Stations in a Power System including Wind Farms [Articol ISI]
- Design and Implementation of CNFET SRAM Cells by Using Multi-Threshold Technique [Articol ISI]
- Floating Solar Systems with Application to Nearshore Sites in the Greek Sea Region [Articol ISI]
- Economic Feasibility of a Hybrid Microgrid System for a Distributed Substation [Articol ISI]
- Study on the Design Stage from a Dimensional and Energetic Point of View for a Marine Technical Water Generator Suitable for a Medium Size Container Ship [Articol ISI]
- An Evaluation of the Efficiency of the Floating Solar Panels in the Western Black Sea and the Razim-Sinoe Lagunar System [Articol ISI]
- An overview of the offshore wind energy potential for twelve significant geographical locations across the globe [Articol ISI]
- Study on wind farms in the North Sea area [Articol ISI]

- A novel method based on artificial neural networks for selecting the most appropriate locations of the offshore wind farms [Articol ISI]
- ASSESSMENT OF THE SOLAR ENERGY POTENTIAL IN THE ROMANIAN NEARSHORE [Articol BDI]
- ANALYZING A BLACK SEA NAVAL ACCIDENT THROUGH THE STAMP METHOD [Articol BDI]
- WASTE RECOVERY SYSTEM ECONOMICAL ANALYSIS FOR DUAL FUEL ENGINE FITTED ONBOARD A LNG TANKER [Articol BDI]
- Evaluation of the adverse weather conditions associated to some significant European marine renewable energy projects [Articol ISI]
- A spatial analysis of the offshore wind energy potential related to the Mediterranean islands [Articol ISI]
- A Robust and Efficient Computational Fluid Dynamics Approach for the Prediction of Horizontal-Axis Wind Turbine Performance [Articol ISI]
- Wind Variation near the Black Sea Coastal Areas Reflected by the ERA5 Dataset [Articol ISI]
- Assessment of the wind power dynamics in the North Sea under climate change conditions [Articol ISI]
- The near future expected wave power in the coastal environment of the Iberian Peninsula [Articol ISI]
- Novel Combined Load Frequency Control and Automatic Voltage Regulation of a 100% Sustainable Energy Interconnected Microgrids [Articol ISI]
- A Modified Mild-Slope Model for the Hydrodynamic Analysis of Arrays of Heaving WECs in Variable Bathymetry Regions [Articol ISI]
- SHIP ROUTING USING A* ALGORITHM - A BLACK SEA CASE STUDY [Articol ISI]
- Wind Energy Assessments in the Northern Romanian Coastal Environment Based on 20 Years of Data Coming from Different Sources [Articol ISI]
- Analysis and Operation of a High DC-AC Gain 3-phi Capacitor Clamped Boost Inverter [Articol ISI]
- Estimation of the Tower Shape Effect on the Stress-Strain Behavior of Wind Turbines Operating under Offshore Boundary Conditions [Articol ISI]
- UXO Assessment on the Romanian Black Sea Coast [Articol BDI]
- Introducing the Living Lab Approach in the Coastal Area of Constanta (Romania) by Using Design Thinking [Articol ISI]
- An Analysis of the Wind Parameters in the Western Side of the Black Sea [Articol ISI]
- Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts [Articol ISI]
- Characteristics of the Wind and Wave Climate along the European Seas Focusing on the Main Maritime Routes [Articol ISI]
- A High-Gain Multiphase Interleaved Differential Capacitor Clamped Boost Converter [Articol ISI]
- Water injection as a way for pollution control [Articol ISI]
- A Delphi method to classify wave energy resource for the 21st century: Application to the NW Iberian Peninsula [Articol ISI]
- A Novel Hexagonal-Shaped Multilevel Inverter with Reduced Switches for Grid-Integrated Photovoltaic System [Articol ISI]
- Water injection in spark ignition engines—Impact on engine cycle [Articol ISI]
- Water injection in spark ignition engines—Impact on engine cycle [Articol ISI]
- A Novel Hexagonal-Shaped Multilevel Inverter with Reduced Switches for Grid-Integrated Photovoltaic System [Articol ISI]
- WIND CLIMATE SCENARIOS IN THE BLACK SEA BASIN UNTIL THE END OF THE 21ST CENTURY [Articol BDI]
- EVALUATION OF THE WATER MASSES MIXING PROCESS IN THE AREA OF RIVER DANUBE

DISCHARGE [Articol BDI]

- An Overview of the Ship Ventilation Systems and Measures to Avoid the Spread of Diseases [Articol ISI]
- Hydrodynamic Analysis of Twin-Hull Structures Supporting Floating PV Systems in Offshore and Coastal Regions [Articol ISI]
- Multi-Criteria Analysis of the Mass Tourism Management Model Related to the Impact on the Local Community in Constanta City (Romania) [Articol ISI]
- Implementation Aspects Regarding Closed-Loop Control Systems Using Evolutionary Algorithms [Articol ISI]
- New insights into the wind energy potential of the west Black Sea area based on the North Sea wind farms model [Articol ISI]
- Hydrodynamic Analysis of Twin-Hull Structures Supporting Floating PV Systems in Offshore and Coastal Regions [Articol ISI]
- Green fuels—A new challenge for marine industry [Articol ISI]
- The efficiency and coastal protection provided by a floating wind farm operating in the Romanian nearshore [Articol ISI]
- A long-term evaluation of wind energy resources in Republic of Moldova [Articol ISI]
- Towards controlling the elements: Five wind turbines for a Romanian coastal Black Sea location [Articol ISI]
- Triac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications [Articol ISI]
- Performance analysis of a RDF gasification and solar thermal energy based CCHP system [Articol ISI]
- A Local Perspective on Wind Energy Potential in Six Reference Sites on the Western Coast of the Black Sea Considering Five Different Types of Wind Turbines [Articol ISI]
- Multi-Criteria Analysis of the Mass Tourism Management Model Related to the Impact on the Local Community in Constanta City (Romania) [Articol ISI]
- Triac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications [Articol ISI]
- Implementation Aspects Regarding Closed-Loop Control Systems Using Evolutionary Algorithms [Articol ISI]
- Green fuels—A new challenge for marine industry [Articol ISI]
- A long-term evaluation of wind energy resources in Republic of Moldova [Articol ISI]
- Emerging Floating Photovoltaic System—Case Studies High Dam and Aswan Reservoir in Egypt [Articol ISI]
- Emerging Floating Photovoltaic System—Case Studies High Dam and Aswan Reservoir in Egypt [Articol ISI]
- Assessment of the Wind Energy Potential along the Romanian Coastal Zone [Articol ISI]
- URANSE-Based Numerical Prediction for the Free Roll Decay of the DTMB Ship Model [Articol ISI]
- URANSE-Based Numerical Prediction for the Free Roll Decay of the DTMB Ship Model [Articol ISI]
- Assessment of the Offshore Wind Energy Potential in the Romanian Exclusive Economic Zone [Articol ISI]
- AN EVALUATION OF THE POTENTIAL IMPACT OF EXTRACTING MARINE RENEWABLE ENERGY IN THE COASTAL ENVIRONMENT OF THE BLACK SEA [Articol BDI]
- A Numerical Model of Biomass Combustion Physical and Chemical Processes [Articol ISI]
- Wave Farms Impact on the Coastal Processes-A Case Study Area in the Portuguese Nearshore [Articol ISI]
- Wave Farms Impact on the Coastal Processes-A Case Study Area in the Portuguese Nearshore [Articol ISI]

- Optimal Control of an Ultraviolet Water Disinfection System [Articol ISI]
- An Evaluation of the Main Physical Features and Circulation Patterns in the Black Sea Basin [Articol BDI]
- ASSESSMENT OF THE SOLAR AND WIND ENERGY POTENTIAL RELATED TO ROMANIAN SOUTHERN LAKES [Articol BDI]
- ASSESSMENT OF THE SOLAR AND WIND ENERGY POTENTIAL RELATED TO ROMANIAN SOUTHERN LAKES [Conference Proceeding - Prezentare orală]
- Assessment of wave energy availability in the Romanian nearshore of the Black Sea [Conference Proceeding - Poster]
- Performance of photovoltaic systems supported by twin-hull floating structures in offshore and coastal regions [Conference Proceeding - Articol]
- RENEWABLE ENERGY - FLOATING SOLAR FARMS IN ROMANIA [Conference Proceeding - Articol]
- The Expected Dynamics of Offshore Renewable Energy in the European Nearshore [Conference Proceeding - Prezentare orală]
- Floating Solar Systems with Application to Nearshore/COASTAL Sites in the MED Sea Region [Conference Proceeding - Prezentare orală]
- The expected dynamics of wind energy in Baltic and North Seas [Conference Proceeding - Prezentare orală]
- Assessment of the synergy between marine energy resources in the west Iberian coast [Conference Proceeding - Prezentare orală]
- Long-term Wind Speed Evaluation for Romanian Wind Farms [Conference Proceeding - Articol]
- A Computational Platform to assess the Coastal Impact of the Marine Energy Farms [Conference Proceeding - Articol]
- Expected Performances of WEC Systems Operating Near the European Offshore Wind Sites [Conference Proceeding - Articol]
- Europe's post pandemic electricity price evolution [Conference Proceeding - Articol]
- Studies concerning the expected impact of the marine energy farms in different coastal areas [Conference Proceeding - Articol]
- Selection of the offshore wind farms locations using an artificial neural networks approach [Conference Proceeding - Prezentare orală]
- An assessment of the expected dynamics of the wind energy resources in the Black Sea [Conference Proceeding - Prezentare orală]
- The potential of the hybrid wind-waves farm in the coastal environment of the Iberian Peninsula [Conference Proceeding - Prezentare orală]
- Numerical simulations on irregular waves for a container ship [Conference Proceeding - Prezentare orală]
- A joint evaluation of the wave and wind energy along the west Iberian nearshore [Conference Proceeding - Articol]
- An evaluation of the expected wind dynamics in the Black Sea in the context of the climate change [Conference Proceeding - Articol]
- Reinterpreting the lionheart j-class lines: a 3D modelling scenario with a fem analysis [Conference Proceeding - Articol]
- The Actual Security Climate in the Black Sea Basin [Conference Proceeding - Articol]
- The place of marine renewable energy in the green road for a sustainable development [Conference Proceeding - Prezentare orală]
- Inference of the LCOE for a future offshore wind farm located in the western area of the Black Sea [Conference Proceeding - Prezentare orală]
- Design and Finite Element Analysis of a Lower Arm Using CATIA V5 [Conference Proceeding - Articol]

- A review of the constructive solutions adopted for the offshore wind turbines [Conference Proceeding - Prezentare orală]
- Design and finite element analysis of a circular steel profile frame using Autodesk Inventor [Conference Proceeding - Articol]
- Enhancing the safety of the Black Sea naval operations by using a genetic algorithm [Conference Proceeding - Poster]
- Rapid environmental assessment with Maritime Unmanned Systems [Conference Proceeding - Poster]
- The evaluation of the wind climate along the Romanian coastal zone of the Black Sea [Conference Proceeding - Poster]
- The assessment of the wind energy conditions in the Western part of the Black Sea coast over a 10-year time interval [Conference Proceeding - Poster]
- Dry abrasive wear effects on epoxy resin-based composites [Conference Proceeding - Poster]
- Offshore wind farms' location selection with artificial neural networks [Conference Proceeding - Poster]
- Evaluation of the onshore and offshore wind energy resources associated to the Black Sea basin [Conference Proceeding - Poster]
- Reduction of bearing force on a container ship [Conference Proceeding - Poster]
- A 3D BEM for the propagation of water waves scattered by arrays of vertical cylinders in the presence of currents [Conference Proceeding - Articol]
- MARINE RENEWABLE ENERGY AND THE GREEN ROAD TO A LOW CARBON FUTURE [Conference Proceeding - Prezentare orală]
- BEM models for the hydrodynamic analysis of DWC and Floating PV Structures in variable bathymetry [Conference Proceeding - Prezentare orală]
- Marine Renewable Energy, an Important Resource towards a Low Carbon Future [Conference Proceeding - Prezentare orală]
- Wave Energy Extraction in the Context of the Climate Change [Conference Proceeding - Prezentare orală]
- A spatial analysis of the offshore wind energy potential related to the Mediterranean islands [Conference Proceeding - Prezentare orală]
- Assessment of the wind power dynamics in the North Sea under climate change conditions [Conference Proceeding - Articol]
- The near future expected wave power in the coastal environment of the Iberian Peninsula [Conference Proceeding - Articol]
- Simulation and performance evaluation of OWC device operating in coastal region [Conference Proceeding - Prezentare orală]
- Correction of the predicted wave characteristics using regression methods - a case study for the Iberian coastal environment [Conference Proceeding - Poster]
- Simulation and performance evaluation of OWC device operating in coastal region [Conference Proceeding - Prezentare orală]
- The Expected Dynamics of the Wind Conditions in the West Iberian Nearshore in the Context of the Climate Change [Conference Proceeding - Prezentare orală]
- The Expected Dynamics of the Wind Conditions in the West Iberian Nearshore in the Context of the Climate Change [Conference Proceeding - Prezentare orală]
- Correction of the predicted wave characteristics using regression methods - a case study for the Iberian coastal environment [Conference Proceeding - Poster]
- Wind condition analysis and partial repowering concept for Fantanele-Cogealac Onshore Project [Conference Proceeding - Articol]
- NAVAL ACCIDENTS CAUSATIVE FACTORS - A BLACK SEA CASE STUDY [Conference Proceeding

- Articol]
- Wind condition analysis and partial repowering concept for Fantanele-Cogeaalac Onshore Project [Conference Proceeding - Articol]
- ON THE ABATEMENT OF SHIPPING EMISSIONS - A POTENTIAL APPROACH FOR THE BLACK SEA BASIN [Conference Proceeding - Articol]
- NAVAL ACCIDENTS CAUSATIVE FACTORS - A BLACK SEA CASE STUDY [Conference Proceeding - Articol]
- A spatial assessment of the Romanian nearshore wind conditions [Conference Proceeding - Articol]
- ON THE ABATEMENT OF SHIPPING EMISSIONS - A POTENTIAL APPROACH FOR THE BLACK SEA BASIN [Conference Proceeding - Articol]
- Assessments of the long-term waves data series in case of the sheltered adjacent areas delineation for emergency situations adjoining the Constanta port [Conference Proceeding - Articol]
- A spatial assessment of the Romanian nearshore wind conditions [Conference Proceeding - Articol]
- An insight into the Romanian energy market in the context of climate change and the European Green Deal [Conference Proceeding - Articol]
- Waves penetration inside the port acvatories asociated with the extreme storm regim on the Romanian coast [Conference Proceeding - Articol]
- Assessments of the long-term waves data series in case of the sheltered adjacent areas delineation for emergency situations adjoining the Constanta port [Conference Proceeding - Articol]
- European Green Deal and its targets in terms of ocean energy [Conference Proceeding - Prezentare orală]
- Statistical and economic analysis of the Rhine-Main-Danube canal, the bridge between the North Sea and the Black Sea [Conference Proceeding - Prezentare orală]
- Study on navigation conditions and shipping traffic on the Danube in the period 2010-2020 [Conference Proceeding - Prezentare orală]
- Statistical and economic analysis of the Rhine-Main-Danube canal, the bridge between the North Sea and the Black Sea [Conference Proceeding - Prezentare orală]
- The study of wave transformation in Mangalia port with numerical models [Conference Proceeding - Prezentare orală]
- Study on navigation conditions and shipping traffic on the Danube in the period 2010-2020 [Conference Proceeding - Prezentare orală]
- Validation methods for numerical model's results applied to the marine hydrodynamic processes at the Romanian coast [Conference Proceeding - Prezentare orală]
- The study of wave transformation in Mangalia port with numerical models [Conference Proceeding - Prezentare orală]
- Validation methods for numerical model's results applied to the marine hydrodynamic processes at the Romanian coast [Conference Proceeding - Prezentare orală]
- Study on the behavior of benchmark container ships in regular waves [Conference Proceeding - Articol]
- Local flow assessment of the Japan Bulk Carrier using different turbulence models [Conference Proceeding - Articol]
- Numerical Investigation of the Shallow Water Effect on the Total Resistance [Conference Proceeding - Articol]
- Propagation of waves in variable bathymetry in the presence of sheared currents by means of coupled-modes [Conference Proceeding - Articol]
- Propagation of waves in variable bathymetry in the presence of sheared currents by means of coupled-modes [Conference Proceeding - Articol]
- UAVs support to naval operations [Conference Proceeding - Articol]
- European Green Deal and the transition to a low carbon future through marine renewable energy

[Conference Proceeding - Prezentare orală]

- Assessing the impact of renewable energy extraction on the marine environment. A case study for the Black Sea [Conference Proceeding - Prezentare orală]
- European Green Deal and the transition to a low carbon future through marine renewable energy [Conference Proceeding - Prezentare orală]
- Forecast of wind energy evolution in Republic of Moldova [Conference Proceeding - Prezentare orală]
- Assessing the impact of renewable energy extraction on the marine environment. A case study for the Black Sea [Conference Proceeding - Prezentare orală]
- A study concerning the LCOE dynamics in Europe for the renewable energy in the context of the European Green Deal [Conference Proceeding - Prezentare orală]
- Forecast of wind energy evolution in Republic of Moldova [Conference Proceeding - Prezentare orală]
- An updated state of the storms in the Black Sea basin over the last 30 years [Conference Proceeding - Prezentare orală]
- A study concerning the LCOE dynamics in Europe for the renewable energy in the context of the European Green Deal [Conference Proceeding - Prezentare orală]
- Navigation conditions and restrictions along the Danube-Black Sea channel [Conference Proceeding - Prezentare orală]
- An updated state of the storms in the Black Sea basin over the last 30 years [Conference Proceeding - Prezentare orală]
- Evaluation of the maritime traffic, accidents and casualties in the European seas [Conference Proceeding - Prezentare orală]
- Navigation conditions and restrictions along the Danube-Black Sea channel [Conference Proceeding - Prezentare orală]
- UAVs support to naval operations [Conference Proceeding - Articol]
- Analysis of the wave and wind conditions along the European seas for the last twenty years [Conference Proceeding - Prezentare orală]
- Evaluation of the maritime traffic, accidents and casualties in the European seas [Conference Proceeding - Prezentare orală]
- Analysis of the wave and wind conditions along the European seas for the last twenty years [Conference Proceeding - Prezentare orală]
- The Black Sea currents impact on naval operations [Conference Proceeding - Articol]
- Marine Renewable Energy Extraction in the Context of the Climate Change [Conference Proceeding - Prezentare orală]
- Renewable energy from the marine environment in the context of the climate changes [Conference Proceeding - Prezentare orală]
- Energia regenerabilă din mediul marin și sinergia dintre energia vântului și a valurilor [Carte]

2. Categoria rezultatului (conform art. 74, nr. O.G. 57/2002)

Tip	Rezultat final	Detalii
-----	----------------	---------

2.1. documentații, studii, lucrări	[X] <ul style="list-style-type: none">- The Expected Dynamics of the European Offshore Wind Sector in the Climate Change Context [Article ISI]- Performance Analysis of Harmonic-Reduced Modified PUC Multi-Level Inverter Based on an MPC Algorithm [Article ISI]- Romanian Energy System Analysis (Production, Consumption, and Distribution) [Article ISI]- On the particularities of the maritime education [Article ISI]- A technical-economic analysis regarding the efficiency of a photovoltaic system with energy storage in accumulator batteries compared to injection into the national energy system [Article BDI]- Turbine as an Additive for Diesel Engines: Experimental Study on Pollutant Emissions and Engine Performance [Article ISI]- An evaluation of the expected wind dynamics in the black sea in the context of the climate change [Article ISI]- Pharmacophore-Modeling-Based Optimal Placement and Sizing of Large-Scale Energy Storage Stations in a Power System including Wind Farms [Article ISI]- Design and Implementation of CHET SRAM Cells by Using Multi-Threshold Technique [Article ISI]- Floating Solar Systems with Application to Nearshore Coastal Sites in the Greek Sea Region [Article ISI]- Economic Feasibility of a Hybrid Microgrid System for a Distributed Substation [Article ISI]- Study on the Design Stage from a Dimensional and Energetic Point of View for a Marine Technical Water Generator Suitable for a Medium Size Container Ship [Article ISI]- An Evaluation of the Efficiency of the Floating Solar Panels in the Western Black Sea and the Razim-Sinoe Lagunar System [Article ISI]- An overview of the offshore wind energy potential for twelve significant geographical locations across the globe [Article ISI]- Study on wind farms in the North Sea area [Article ISI]- A novel method based on artificial neural networks for selecting the most appropriate locations of the offshore wind farms [Article ISI]- ASSESSMENT OF THE SOLAR AND WIND ENERGY POTENTIAL RELATED TO ROMANIAN SOUTHERN LAKES [Conference Proceeding - Article BDI]- ANALYZING A BLACK SEA NAVAL ACCIDENT THROUGH THE STAMP METHOD [Article BDI]- WASTE RECOVERY SYSTEM ECONOMICAL ANALYSIS FOR DUAL FUEL ENGINE FITTED ONBOARD A LNG TANKER [Article BDI]- Evaluation of the adverse weather conditions associated to some significant European marine renewable energy projects [Article ISI]- A spatial analysis of the offshore wind energy potential related to the Mediterranean islands [Article ISI]- A Robust and Efficient Computational Fluid Dynamics Approach for the Prediction of Horizontal-Axis Wind Turbine Performance [Article ISI]- Wind Variation near the Black Sea Coastal Area Reflected by the ERA5 Dataset [Article ISI]- Assessment of the wind power dynamics in the North Sea under climate change conditions [Article ISI]- The near future expected wave power in the coastal environment of the Iberian Peninsula [Article ISI]- Novel Combined Load Frequency Control and Automatic Voltage Regulation of a 100% Sustainable Energy Interconnected Microgrids [Article ISI]- A Modified Minkowski for the Hydrodynamic Analysis of Arrays of Heaving WECs in Variable Bathymetry Regions [Article ISI]- SHIP ROUTING USING A* ALGORITHM - A BLACK SEA CASE STUDY [Article ISI]- Wind Energy Assessments in the Northern Romanian Coastal Environment Based on 20 Years of Data Coming from Different Sources [Article ISI]- Analysis and Operation of a High DC-AC Gain 3-ph Capacitor Clamped Inverter [Article ISI]- Estimation of the Tower Shape Effect on the Stress-Strain Behavior of Wind Turbines Operating under Offshore Boundary Conditions [Article ISI]- UXO Assessment on the Romanian Black Sea Coast [Article BDI]- Introducing the Living Lab Approach in the Coastal Area of Constanta (Romania) by Using Design Thinking [Article ISI]- An Analysis of the Wind Parameters in the Western Side of the Black Sea [Article ISI]- Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts [Article ISI]- Characteristics of the Wind and Wave Climate along the European Seas Focusing on the Main Maritime Routes [Article ISI]- A High-Gain Multibase Interleaved Differential Capacitor Clamped Boost Converter [Article ISI]- Water injection as a way for pollution control [Article ISI]- A Delphi method to classify wave energy resource for the 21st century: Application to the NW Iberian Peninsula [Article ISI]- A Novel Hexagonal-Shaped Multilevel Inverter with Reduced Switches for Grid-Integrated Photovoltaic System [Article ISI]- Water injection in spark ignition engines—Impact on engine cycle [Article ISI]- Water injection in spark ignition engines—Impact on engine cycle [Article ISI]- A Novel Hexagonal-Shaped Multilevel Inverter with Reduced Switches for Grid-Integrated Photovoltaic System [Article ISI]- WIND CLIMATE SCENARIOS IN THE BLACK SEA BASIN UNTIL THE END OF THE 21ST CENTURY [Article BDI]- EVALUATION OF THE WATER MASSES MIXING PROCESS IN THE AREA OF RIVER DANUBE DISCHARGE [Article BDI]- An Overview of the Ship Ventilation Systems and Case Study Area in the Portuguese Nearshore [Article ISI]- Hydrodynamic Analysis of Twin-Hull Structures Supporting Floating PV Systems in Offshore and Coastal Regions [Article ISI]- Multi-Criteria Analysis of the Mass Tourism Management Model Related to the Impact on the Local Community in Constanta City (Romania) [Article ISI]- Implementation Aspects Regarding Closed-Loop Control Systems Using Evolutionary Algorithms [Article ISI]- New insights into the wind energy potential of the west Black Sea area based on the North Sea wind farms model [Article ISI]- Hydrodynamic Analysis of Twin-Hull Structures Supporting Floating PV Systems in Offshore and Coastal Regions [Article ISI]- Green fuel—A new challenge for marine industry [Article ISI]- The efficiency and coastal protection provided by a floating wind farm operating in the Romanian nearshore [Article ISI]- A long-term evaluation of wind energy resources in Republic of Moldova [Article ISI]- Towards controlling the elements: Five wind turbines for a Romanian coastal Black Sea location [Article ISI]- Trac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications [Article ISI]- Performance analysis of a RDF gasification and solar thermal energy based CHP system [Article ISI]- A Local Perspective on Wind Energy Potential in Six Reference Sites on the Western Coast of the Black Sea Considering Five Different Types of Wind Turbines [Article ISI]- Multi-Criteria Analysis of the Mass Tourism Management Model Related to the Impact on the Local Community in Constanta City (Romania) [Article ISI]- Trac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications [Article ISI]- Implementation Aspects Regarding Closed-Loop Control Systems Using Evolutionary Algorithms [Article ISI]- Green fuel—A new challenge for marine industry [Article ISI]- A long-term evaluation of wind energy resources in Republic of Moldova [Article ISI]- Emerging Floating Photovoltaic System—Case Studies High Dam and Aswan Reservoir in Egypt [Article ISI]- Emerging Floating Photovoltaic System—Case Studies High Dam and Aswan Reservoir in Egypt [Article ISI]- Assessment of the Wind Energy Potential along the Romanian Coastal Zone [Article ISI]- URANSE-Based Numerical Prediction for the Free Roll Decay of the DTMB Ship Model [Article ISI]- URANSE-Based Numerical Prediction for the Free Roll Decay of the DTMB Ship Model [Article ISI]- Assessment of the Offshore Wind Energy Potential in the Romanian Exclusive Economic Zone [Article ISI]- AN EVALUATION OF THE POTENTIAL IMPACT OF EXTRACTING MARINE RENEWABLE ENERGY IN THE COASTAL ENVIRONMENT OF THE BLACK SEA [Article BDI]- A Numerical Model of Biomass Combustion Physical and Chemical Processes [Article ISI]- Wave Farms Impact on the Coastal Processes-A Case Study Area in the Portuguese Nearshore [Article ISI]- Wave Farms Impact on the Coastal Processes-A Case Study Area in the Portuguese Nearshore [Article ISI]- Optimal Control of an Ultraviolet Water Disinfection System [Article ISI]- An Evaluation of the Main Physical Features and Circulation Patterns in the Black Sea Basin [Article BDI]- ASSESSMENT OF THE SOLAR AND WIND ENERGY POTENTIAL RELATED TO ROMANIAN SOUTHERN LAKES [Conference Proceeding - Article BDI]- ASSESSMENT OF THE SOLAR AND WIND ENERGY POTENTIAL RELATED TO ROMANIAN SOUTHERN LAKES [Conference Proceeding - Presentare orală]- Assessment of wave energy availability in the Romanian nearshore of the Black Sea [Conference Proceeding - Presentare orală]- Performance of photovoltaic systems supported by twin-hull floating structures in offshore and coastal regions [Conference Proceeding - Article]- RENEWABLE ENERGY - FLOATING SOLAR FARMS IN ROMANIA [Conference Proceeding - Article]- The Expected Dynamics of Offshore Renewable Energy in the European Nearshore [Conference Proceeding - Presentare orală]- Floating Solar Systems with Application to Nearshore Coastal Sites in the NEA Sea Region [Conference Proceeding - Presentare orală]- The expected dynamics of wind energy in Baltic and North Seas [Conference Proceeding - Presentare orală]- Assessment of the synergy between marine energy resources in the west Iberian coast [Conference Proceeding - Presentare orală]- Long-Term Wind Speed Evaluation for Romanian Wind Farms [Conference Proceeding - Article]- A Computational Platform to assess the Coastal Impact of the Marine Energy Farms [Conference Proceeding - Article]- Expected Performances of WEC Systems Operating Near the European Offshore Wind Sites [Conference Proceeding - Article]- Europe's prize pandemic evolution [Conference Proceeding - Article]- Studies concerning the expected impact of the marine energy farms in different coastal areas [Conference Proceeding - Article]- Selection of the offshore wind farms locations using an artificial neural networks approach [Conference Proceeding - Presentare orală]- An assessment of the expected wind dynamics in the Black Sea in the context of the climate change [Conference Proceeding - Article]- The potential of the hybrid wind-waves farm in the coastal environment of the Iberian Peninsula [Conference Proceeding - Presentare orală]- Numerical simulations on irregular waves for a container ship [Conference Proceeding - Presentare orală]- A joint evaluation of the wave and wind energy along the west Iberian nearshore [Conference Proceeding - Article]- An evaluation of the expected wind dynamics in the Black Sea in the context of the climate change [Conference Proceeding - Article]- Reinterpreting the lionheart j-class lines: a 3D modeling scenario with a fem analysis [Conference Proceeding - Article]- The Actual Security Climate in the Black Sea Basin [Conference Proceeding - Article]- The place of marine renewable energy in the green road for a sustainable development [Conference Proceeding - Presentare orală]- Inference of the LCOE for a future offshore wind farm located in the western area of the Black Sea [Conference Proceeding - Presentare orală]- Design and Finite Element Analysis of a Lower Arm Using CATIA V5 [Conference Proceeding - Article]- A review of the constructive solutions adopted for the offshore wind turbines [Conference Proceeding - Presentare orală]- Design and finite element analysis of a circular steel profile frame using Autodesk Inventor [Conference Proceeding - Article]- Enhancing the safety of the Black Sea naval operations by using a genetic algorithm [Conference Proceeding - Poster]- Rapid environmental assessment with Maritime Unmanned Systems [Conference Proceeding - Poster]- The evaluation of the wind climate along the Romanian coastal zone of the Black Sea [Conference Proceeding - Poster]- The assessment of the wind energy conditions in the Western part of the Black Sea coast over a 10-year time interval [Conference Proceeding - Poster]- Dry abrasive wear effects on epoxy resin-based composites [Conference Proceeding - Poster]- Offshore wind farms' location selection with artificial neural networks [Conference Proceeding - Poster]- Evaluation of the onshore and offshore wind energy resources associated to the Black Sea basin [Conference Proceeding - Poster]- Reduction of bearing force on a container ship [Conference Proceeding - Poster]- A 3D DEM for the propagation of water waves scattered by arrays of vertical cylinders in the presence of currents [Conference Proceeding - Article]- MARINE RENEWABLE ENERGY AND THE GREEN ROAD TO A LOW CARBON FUTURE [Conference Proceeding - Presentare orală]- BEM models for the hydrodynamic analysis of DWC and Floating PV Structures in variable bathymetry [Conference Proceeding - Presentare orală]- Marine Renewable Energy: an Important Resource towards a Low Carbon Future [Conference Proceeding - Presentare orală]- Wave Energy Extraction in the Context of the Climate Change [Conference Proceeding - Presentare orală]- A spatial analysis of the offshore wind energy potential related to the Mediterranean islands [Conference Proceeding - Presentare orală]- Assessment of the wind power dynamics in the North Sea under climate change conditions [Conference Proceeding - Article]- The near future expected wave power in the coastal environment of the Iberian Peninsula [Conference Proceeding - Article]- Simulation and performance evaluation of OWC device operating in coastal region [Conference Proceeding - Presentare orală]- Correction of the predicted wave characteristics using regression methods - a case study for the Iberian coastal environment [Conference Proceeding - Poster]- Simulation and performance evaluation of OWC device operating in coastal region [Conference Proceeding - Presentare orală]- The Expected Dynamics of the Wind Conditions in the West Iberian Nearshore in the Context of the Climate Change [Conference Proceeding - Presentare orală]- The Expected Dynamics of the Wind Conditions in the West Iberian Nearshore in the Context of the Climate Change [Conference Proceeding - Presentare orală]- Correction of the predicted wave characteristics using regression methods - a case study for the Iberian coastal environment [Conference Proceeding - Poster]- Wind condition analysis and partial repowering concept for Fantale-Cogeaia: Onshore Project [Conference Proceeding - Article]- NAVAL ACCIDENTS CAUSATIVE FACTORS - A BLACK SEA CASE STUDY [Conference Proceeding - Article]- Wind condition analysis and partial repowering concept for Fantale-Cogeaia: Onshore Project [Conference Proceeding - Article]- ON THE ABATEMENT OF SHIPPING EMISSIONS - A POTENTIAL APPROACH FOR THE BLACK SEA BASIN [Conference Proceeding - Article]- NAVAL ACCIDENTS CAUSATIVE FACTORS - A BLACK SEA CASE STUDY [Conference Proceeding - Article]- A spatial assessment of the Romanian nearshore wind conditions [Conference Proceeding - Article]- ON THE ABATEMENT OF SHIPPING EMISSIONS - A POTENTIAL APPROACH FOR THE BLACK SEA BASIN [Conference Proceeding - Article]- Assessments of the long-term waves data series in case of the sheltered advanced areas delineation for emergency situations adjoining the Constanta port [Conference Proceeding - Article]- A spatial assessment of the Romanian nearshore wind conditions [Conference Proceeding - Article]- An insight into the Romanian energy market in the context of climate change and the European Green Deal [Conference Proceeding - Article]- Waves penetration inside the port acavatories associated with the extreme storm regime on the Romanian coast [Conference Proceeding - Article]- Assessments of the long-term waves data series in case of the sheltered advanced areas delineation for emergency situations adjoining the Constanta port [Conference Proceeding - Article]- European Green Deal and its targets in terms of ocean energy [Conference Proceeding - Presentare orală]- Statistical and economic analysis of the Rhine-Main-Danube canal, the bridge between the North Sea and the Black Sea [Conference Proceeding - Presentare orală]- Study on navigation conditions and shipping traffic on the Danube in the period 2010-2020 [Conference Proceeding - Presentare orală]- Statistical and economic analysis of the Rhine-Main-Danube canal, the bridge between the North Sea and the Black Sea [Conference Proceeding - Presentare orală]- The study of wave transformation in Mangalia port with numerical models [Conference Proceeding - Presentare orală]- Study on navigation conditions and shipping traffic on the Danube in the period 2010-2020 [Conference Proceeding - Presentare orală]- Validation methods for numerical results applied to the marine hydrodynamic processes at the Romanian coast [Conference Proceeding - Presentare orală]- The study of wave transformation in Mangalia port with numerical models [Conference Proceeding - Presentare orală]- Validation methods for numerical model's results applied to the marine hydrodynamic processes at the Romanian coast [Conference Proceeding - Presentare orală]- Study on the behavior of benchmark container ships in regular waves [Conference Proceeding - Article]- Local flow assessment of the Japan Bulk Carrier using different turbulence models [Conference Proceeding - Article]- Numerical Investigation of the Shallow Water Effect on the Total Resistance [Conference Proceeding - Article]- Propagation of waves in variable bathymetry in the presence of sheared currents by means of coupled-modes [Conference Proceeding - Article]- Propagation of waves in variable bathymetry in the presence of sheared currents by means of coupled-modes [Conference Proceeding - Article]- UAVs support to naval operations [Conference Proceeding - Article]- European Green Deal and the transition to a low carbon future through marine renewable energy [Conference Proceeding - Presentare orală]- Assessing the impact of renewable energy extraction on the marine environment: A case study for the Black Sea [Conference Proceeding - Presentare orală]- European Green Deal and the transition to a low carbon future through marine renewable energy [Conference Proceeding - Presentare orală]- Forecast of wind energy evolution in Republic of Moldova [Conference Proceeding - Presentare orală]- Assessing the impact of renewable energy extraction on the marine environment: A case study for the Black Sea [Conference Proceeding - Presentare orală]- A study concerning the LCOE dynamics in Europe for the renewable energy in the context of the European Green Deal [Conference Proceeding - Presentare orală]- Forecast of wind energy evolution in Republic of Moldova [Conference Proceeding - Presentare orală]- An updated state of the storms in the Black Sea basin over the last 30 years [Conference Proceeding - Presentare orală]- A study concerning the LCOE dynamics in Europe for the renewable energy in the context of the European Green Deal [Conference Proceeding - Presentare orală]- Navigation conditions and restrictions along the Danube-Black Sea channel [Conference Proceeding - Presentare orală]- An updated state of the storms in the Black Sea basin over the last 30 years [Conference Proceeding - Presentare orală]- Evaluation of the maritime traffic, accidents and casualties in the European seas [Conference Proceeding - Presentare orală]- Navigation conditions and restrictions along the Danube-Black Sea channel [Conference Proceeding - Presentare orală]- UAVs support to naval operations [Conference Proceeding - Article]- Analysis of the wave and wind conditions along the European seas for the last twenty years [Conference Proceeding - Presentare orală]- Evaluation of the maritime traffic, accidents and casualties in the European seas [Conference Proceeding - Presentare orală]- Analysis of the wave and wind conditions along the European seas for the last twenty years [Conference Proceeding - Presentare orală]- The Black Sea currents impact on naval operations [Conference Proceeding - Article]- Marine Renewable Energy Extraction in the Context of the Climate Change [Conference Proceeding - Presentare orală]- Renewable energy from the marine environment in the context of the climate changes [Conference Proceeding - Presentare orală]- Energia regenerabilă din mediul marin și sinergia dintre energia vântului și a valurilor [Carte]
------------------------------------	--

2.2. planuri, scheme	[-]	
2.3. tehnologii	[-]	
2.4. procedee, metode	[-]	
2.5. produse informatice	[-]	
2.6. rețete, formule	[-]	
2.7. obiecte fizice/produse	[-]	
2.8. brevet invenție/alte asemenea	[-]	
2.9. colecții și baze de date	[-]	
2.10. creații biologice noi în domeniul producției vegetale și producției animale	[-]	

3. Nivel de maturitate tehnologică (TRL)

TRL 1 - Principii de bază observate	[-]	
TRL 2 - Formularea conceptului tehnologic	[-]	
TRL 3 - Demonstrarea conceptului privind funcționalitățile critice sau caracteristicile la nivel analitic sau experimental	[-]	
TRL 4 - Validarea componentelor și/sau a ansamblului în condiții de laborator	[-]	
TRL 5 - Validarea componentelor și/sau a ansamblului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 6 - Demonstrarea funcționalității modelului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 7 - Demonstrarea funcționalității prototipului în condiții relevante de funcționare	[-]	
TRL 8 - Sisteme finalizate și calificate	[-]	
TRL 9 - Sisteme a căror funcționalitate a fost demonstrată în mediul operațional	[-]	
Nu e cazul / Nu se aplică	[-]	

4. Domeniul de cercetare

1. Tehnologiile societății informaționale	[-]	
2. Energie	[-]	
3. Mediu	[-]	
4. Sănătate	[-]	
5. Agricultură, securitatea și siguranța alimentară	[-]	
6. Biotehnologii	[-]	
7. Materiale, procese și produse inovative	[-]	
8. Spațiu și securitate	[-]	
9. Cercetări socioeconomice și umaniste	[-]	
10. Altele	[-]	

5. Domenii de aplicabilitate

N/A

6. Caracterul inovativ

6.1. produs nou	[-]	
6.2. produs modernizat	[-]	
6.3. tehnologie nouă	[-]	
6.4. tehnologie modernizată	[-]	
6.5. serviciu nou	[-]	
6.6. serviciu modernizat	[-]	

7. Valorificare

N/A

C. INFORMAȚII PRIVIND PROPRIETATEA INTELECTUALĂ

1.2 cerere înregistrare brevet de invenție	[-]	
1.3 brevet de invenție înregistrate (național, european, internațional)	[-]	
1.4 cerere înregistrare modele și desene industriale protejate	[-]	
1.5 modele și desene industriale protejate înregistrate (național, european, internațional)	[-]	
1.6 Cerere înregistrare marcă înregistrată	[-]	
1.7 mărci înregistrate (național, european, internațional)	[-]	
1.8 cerere înregistrare copyright	[-]	
1.9 înregistrare copyright (național, european, internațional)	[-]	
1.10 cerere înregistrare: rețete, indicații geografice, specii vegetale și animale, etc.	[-]	
1.1 înregistrare: rețete, indicații geografice, specii vegetale și animale, etc. (național, european, internațional)	[-]	

D. INFORMAȚII PRIVIND DOCUMENTAȚIILE, COLECȚIILE ȘI BAZELE DE DATE DE INTERES NAȚIONAL

Denumire	Descriere	Categorie	Arhivare	Alte informații
----------	-----------	-----------	----------	-----------------

Fișa de Evidență Nr. 4 din 09/01/2024

a rezultatelor activităților de cercetare-dezvoltare

A. Date Generale

Cod Proiect	PN-III-P4-ID-PCE-2020-0923
Denumirea proiectului	Noi biosenzori si instrumente inteligente pentru detectia ultrasensibila a falsificarii uleiurilor de masline (BUSDOA)
Categoria de proiect	P 4 - Proiecte de Cercetare Exploratorie, 2020
Plan/Program/Competiție	P 4 - Proiecte de Cercetare Exploratorie, 2020
Data începere / Data finalizare	04/01/2021 - 31/12/2023
Contract de finanțare	nr. PCE 80 din
Valoarea totală a proiectului (include și alte surse)	1.198.011,00 lei
Valoarea contractului de finanțare (buget de stat)	1.198.011,00 lei
Parteneriat / Consorțiu	- Contractor - UNIVERSITATEA "DUNAREA DE JOS"

B. Date specifice

Conform OMECI nr. 3845/2009 cu modificările și completările ulterioare

1. Denumirea rezultatului/rezultatelor

- Discrimination of Olive Oil and Extra-Virgin Olive Oil from Other Vegetable Oils by Targeted and Untargeted HRMS Profiling of Phenolic and Triterpenic Compounds Combined with Chemometrics [Articol ISI]
- Classification and Antioxidant Activity Evaluation of Edible Oils by Using Nanomaterial-Based Electrochemical Sensors [Articol ISI]
- Studies on the Detection of Oleuropein from Extra Virgin Olive Oils Using Enzymatic Biosensors [Articol ISI]
- Sensitive Detection of Rosmarinic Acid Using Peptide-Modified Graphene Oxide Screen-Printed Carbon Electrode [Articol ISI]
- Development of a Novel Electrochemical Biosensor Based on Organized Mesoporous Carbon and Laccase for the Detection of Serotonin in Food Supplements [Articol ISI]
- Sensitive Detection of Hydroxytyrosol in Extra Virgin Olive Oils with a Novel Biosensor Based on Single-Walled Carbon Nanotubes and Tyrosinase [Articol ISI]
- Assessment of the Antioxidant Activity of Catechin in Nutraceuticals: Comparison between a Newly Developed Electrochemical Method and Spectrophotometric Methods [Articol ISI]
- Simultaneous Determination of Caffeic Acid and Ferulic Acid Using a Carbon Nanofiber-Based Screen-Printed Sensor [Articol ISI]
- Evaluation of Olive Oil Quality with Electrochemical Sensors and Biosensors: A Review [Articol ISI]
- Laccase and Tyrosinase Biosensors Used in the Determination of Hydroxycinnamic Acids [Articol ISI]
- Analytical Methods Used in Determining Antioxidant Activity: A Review [Articol ISI]
- Biosensors array for the detection of virgin oils adulteration with seed oils [Conference Proceeding]
- **Prezentare orală**
- An ecofriendly approach for the electrochemical determination of olive oils polyphenols using deep

- eutectic solvents [Conference Proceeding - Poster]
- Novel peptide-based sensors designed to detect antioxidant phenolic compounds [Conference Proceeding - Poster]
 - Determination of antioxidant properties by spectrometric and electrochemical methods. Correlations among results [Conference Proceeding - Presentare orală]
 - Authenticity of olive oil: classification of botanic and geographic origins and detection of adulteration based on phenolic compounds composition coupled with chemometric analysis [Conference Proceeding - Presentare orală]
 - Electrochemical peptide-based Sensor for direct detection and quantification of verbascoside in extra virgin olive oil [Conference Proceeding - Presentare orală]
 - Determination of extra virgin olive oil adulteration by using multivariate methods [Conference Proceeding - Poster]
 - Study of olive oil quality with spectrometric methods [Conference Proceeding - Poster]
 - Classification of extra virgin olive oils using chemometry analysis applied to spectrometric data [Conference Proceeding - Presentare orală]
 - Chemometric analysis of FTIR spectroscopic data used for the detection of olive oils adulteration with vegetable oils [Conference Proceeding - Presentare orală]
 - Detection of olive oils adulteration with electrochemical sensors and biosensors based on nanomaterials and enzymes [Conference Proceeding - Presentare orală]
 - Electrochemical (bio)sensor array coupled with multivariate data analysis for the assessment of virgin olive oil quality [Conference Proceeding - Presentare orală]
 - Authentication and detection of adulteration of extra virgin olive oil based on the composition of phenolic compounds [Conference Proceeding - Presentare orală]
 - Noi biosenzori enzimatici pentru determinarea electrochimică a oleuropeinei din uleiuri de măsline extravirgine [Conference Proceeding - Presentare orală]
 - Electroanalytical method coupled with chemometry for detection of virgin olive oil adulteration [Conference Proceeding - Presentare orală]
 - Electrochemical determination of hydroxytyrosol in extravirgin olive oils using screen-printed electrodes modified with single wall carbon nanotubes and tyrosinase [Conference Proceeding - Poster]
 - Comparative study on the antioxidant activity of extra virgin olive oil samples using a newly developed electrochemical method and DPPH spectrophotometric assay [Conference Proceeding - Poster]
 - Spectrometric and electroanalytical methods for the determination of virgin olive oils adulteration [Conference Proceeding - Presentare orală]
 - Determination of the addition of maize oil to extra virgin olive oil by FTIR method coupled with multivariate data analysis methods [Conference Proceeding - Poster]
 - Sensors and Biosensors for Evaluating Olive Oil Quality [Conference Proceeding - Presentare orală]
 - Discrimination of vegetable oils by using spectrometric data and chemometrics methods [Conference Proceeding - Poster]
 - Development of an electroanalytical method for detecting adulteration of extra virgin olive oils [Conference Proceeding - Presentare orală]
 - Development of novel biosensor for the detection of p-coumaric acid in phenolic extracts from virgin olive oils [Conference Proceeding - Poster]
 - Development of novel biosensor for the detection of p-coumaric acid in phenolic extracts from virgin olive oils [Conference Proceeding - Poster]
 - Development of a sensitive method for the voltammetric detection of phenolic compounds in extra virgin olive oils [Conference Proceeding - Poster]
 - Electrochemical sensors and biosensors based on polypyrrole for detection of phenolic compounds

in olive oils [Conference Proceeding - Prezentare orală]

- Electrochemical sensors and biosensors based on polypyrrole for detection of phenolic compounds

in olive oils [Conference Proceeding - Prezentare orală]

- Detection of Olive Oil Adulteration Using Electrochemical Sensors and Biosensors. [Conference Proceeding - Prezentare orală]

- Detection of Olive Oil Adulteration Using Electrochemical Sensors and Biosensors. [Conference Proceeding - Prezentare orală]

2. Categoria rezultatului (conform art. 74, nr. O.G. 57/2002)

Tip	Rezultat final	Detalii
-----	----------------	---------

2.1. documentații, studii, lucrări	[X]	<ul style="list-style-type: none"> - Discrimination of Olive Oil and Extra-Virgin Olive Oil from Other Vegetable Oils by Targeted and Untargeted HRMS Profiling of Phenolic and Triterpenic Compounds Combined with Chemometrics [Articol ISI] - Classification and Antioxidant Activity Evaluation of Edible Oils by Using Nanomaterial-Based Electrochemical Sensors [Articol ISI] - Studies on the Detection of Oleuropein from Extra Virgin Olive Oils Using Enzymatic Biosensors [Articol ISI] - Sensitive Detection of Rosmarinic Acid Using Peptide-Modified Graphene Oxide Screen-Printed Carbon Electrode [Articol ISI] - Development of a Novel Electrochemical Biosensor Based on Organized Mesoporous Carbon and Laccase for the Detection of Serotonin in Food Supplements [Articol ISI] - Sensitive Detection of Hydroxytyrosol in Extra Virgin Olive Oils with a Novel Biosensor Based on Single-Walled Carbon Nanotubes and Tyrosinase [Articol ISI] - Assessment of the Antioxidant Activity of Catechin in Nutraceuticals: Comparison between a Newly Developed Electrochemical Method and Spectrophotometric Methods [Articol ISI] - Simultaneous Determination of Caffeic Acid and Ferulic Acid Using a Carbon Nanofiber-Based Screen-Printed Sensor [Articol ISI] - Evaluation of Olive Oil Quality with Electrochemical Sensors and Biosensors: A Review [Articol ISI] - Laccase and Tyrosinase Biosensors Used in the Determination of Hydroxycinnamic Acids [Articol ISI] - Analytical Methods Used in Determining Antioxidant Activity: A Review [Articol ISI] - Biosensors array for the detection of virgin oils adulteration with seed oils [Conference Proceeding - Prezentare orală] - An ecofriendly approach for the electrochemical determination of olive oils polyphenols using deep eutectic solvents [Conference Proceeding - Poster] - Novel peptide-based sensors designed to detect antioxidant phenolic compounds [Conference Proceeding - Poster] - Determination of antioxidant properties by spectrometric and electrochemical methods. Correlations among results [Conference Proceeding - Prezentare orală] - Authenticity of olive oil: classification of botanic and geographic origins and detection of adulteration based on phenolic compounds composition coupled with chemometric analysis [Conference Proceeding - Prezentare orală] - Electrochemical peptide-based Sensor for direct detection and quantification of verbascoside in extra virgin olive oil [Conference Proceeding - Prezentare orală] - Determination of extra virgin olive oil adulteration by using multivariate methods [Conference Proceeding - Poster] - Study of olive oil quality with spectrometric methods [Conference Proceeding - Poster] - Classification of extra virgin olive oils using chemometry analysis applied to spectrometric data [Conference Proceeding - Prezentare orală] - Chemometric analysis of FTIR spectroscopic data used for the detection of olive oils adulteration with vegetable oils [Conference Proceeding - Prezentare orală] - Detection of olive oils adulteration with electrochemical sensors and biosensors based on nanomaterials and enzymes [Conference Proceeding - Prezentare orală] - Electrochemical (bio)sensor array coupled with multivariate data analysis for the assessment of virgin olive oil quality [Conference Proceeding - Prezentare orală] - Authentication and detection of adulteration of extra virgin olive oil based on the composition of phenolic compounds [Conference Proceeding - Prezentare orală] - Noi biosenzori enzimatici pentru determinarea electrochimică a oleuropeinei din uleiuri de măsline extravirgine [Conference Proceeding - Prezentare orală] - Electroanalytical method coupled with chemometry for detection of virgin olive oil adulteration [Conference Proceeding - Prezentare orală] - Electrochemical determination of hydroxytyrosol in extravirgin olive oils using screen-printed electrodes modified with single wall carbon nanotubes and tyrosinase [Conference Proceeding - Poster] - Comparative study on the antioxidant activity of extra virgin olive oil samples using a newly developed electrochemical method and DPPH spectrophotometric assay [Conference Proceeding - Poster] - Spectrometric and electroanalytical methods for the determination of virgin olive oils adulteration [Conference Proceeding - Prezentare orală] - Determination of the addition of maize oil to extra virgin olive oil by FTIR method coupled with multivariate data analysis methods [Conference Proceeding - Poster] - Sensors and Biosensors for Evaluating Olive Oil Quality [Conference Proceeding - Prezentare orală] - Discrimination of vegetable oils by using spectrometric data and chemometrics methods [Conference Proceeding - Poster] - Development of an electroanalytical method for detecting adulteration of extra virgin olive oils [Conference Proceeding - Prezentare orală] - Development of novel biosensor for the detection of p-coumaric acid in phenolic extracts from virgin olive oils [Conference Proceeding - Poster] - Development of novel biosensor for the detection of p-coumaric acid in phenolic extracts from virgin olive oils [Conference Proceeding - Poster] - Development of a sensitive method for the voltammetric detection of phenolic compounds in extra virgin olive oils [Conference Proceeding - Poster] - Electrochemical sensors and biosensors based on polypyrrole for detection of phenolic compounds in olive oils [Conference Proceeding - Prezentare orală] - Electrochemical sensors and biosensors based on polypyrrole for detection of phenolic compounds in olive oils [Conference Proceeding - Prezentare orală] - Detection of Olive Oil Adulteration Using Electrochemical Sensors and Biosensors. [Conference Proceeding - Prezentare orală] - Detection of Olive Oil Adulteration Using Electrochemical Sensors and Biosensors. [Conference Proceeding - Prezentare orală]
2.2. planuri, scheme	[-]	
2.3. tehnologii	[-]	
2.4. procedee, metode	[-]	
2.5. produse informatice	[-]	

2.6. rețete, formule	[-]	
2.7. obiecte fizice/produse	[-]	
2.8. brevet invenție/alte asemenea	[-]	
2.9. colecții și baze de date	[-]	
2.10. creații biologice noi în domeniul producției vegetale și producției animale	[-]	

3. Nivel de maturitate tehnologică (TRL)

TRL 1 - Principii de bază observate	[-]	
TRL 2 - Formularea conceptului tehnologic	[-]	
TRL 3 - Demonstrarea conceptului privind funcționalitățile critice sau caracteristicile la nivel analitic sau experimental	[-]	
TRL 4 - Validarea componentelor și/sau a ansamblului în condiții de laborator	[-]	
TRL 5 - Validarea componentelor și/sau a ansamblului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 6 - Demonstrarea funcționalității modelului în condiții relevante de funcționare (mediul industrial)	[-]	
TRL 7 - Demonstrarea funcționalității prototipului în condiții relevante de funcționare	[-]	
TRL 8 - Sisteme finalizate și calificate	[-]	
TRL 9 - Sisteme a căror funcționalitate a fost demonstrată în mediul operațional	[-]	
Nu e cazul / Nu se aplică	[-]	

4. Domeniul de cercetare

1. Tehnologiile societății informaționale	[-]	
2. Energie	[-]	
3. Mediu	[-]	
4. Sănătate	[-]	
5. Agricultură, securitatea și siguranța alimentară	[-]	
6. Biotehnologii	[-]	
7. Materiale, procese și produse inovative	[-]	
8. Spațiu și securitate	[-]	
9. Cercetări socioeconomice și umaniste	[-]	
10. Altele	[-]	

5. Domenii de aplicabilitate

N/A

6. Caracterul inovativ

6.1. produs nou	[-]	
6.2. produs modernizat	[-]	
6.3. tehnologie nouă	[-]	
6.4. tehnologie modernizată	[-]	
6.5. serviciu nou	[-]	
6.6. serviciu modernizat	[-]	

7. Valorificare

N/A

C. INFORMAȚII PRIVIND PROPRIETATEA INTELECTUALĂ

1.2 cerere înregistrare brevet de invenție	[-]	
1.3 brevet de invenție înregistrate (național, european, internațional)	[-]	
1.4 cerere înregistrare modele și desene industriale protejate	[-]	
1.5 modele și desene industriale protejate înregistrate (național, european, internațional)	[-]	
1.6 Cerere înregistrare marcă înregistrată	[-]	
1.7 mărci înregistrate (național, european, internațional)	[-]	
1.8 cerere înregistrare copyright	[-]	
1.9 înregistrare copyright (național, european, internațional)	[-]	
1.10 cerere înregistrare: rețete, indicații geografice, specii vegetale și animale, etc.	[-]	
1.1 înregistrare: rețete, indicații geografice, specii vegetale și animale, etc. (național, european, internațional)	[-]	

D. INFORMAȚII PRIVIND DOCUMENTAȚIILE, COLECȚIILE ȘI BAZELE DE DATE DE INTERES NAȚIONAL

Denumire	Descriere	Categorie	Arhivare	Alte informații
----------	-----------	-----------	----------	-----------------