



## Curriculum vitae Europass



### Informații personale

Nume / Prenume

**Bogatu Nicoleta-Lucica**

Adresă(e)

Strada Domnească nr. 111, Galați, 800201, Corp AN, Sala 215

Telefon

+ 40 752 973151

E-mail

**nicoleta.simionescu@ugal.ro**

Web page

<https://orcid.org/0000-0002-3278-3412>  
<https://www.brainmap.ro/nicoleta-simionescu>

Naționalitate

Română

Sex

F

### Experiența

#### profesională

#### Perioada

Septembrie 2020 - prezent

Funcția sau postul ocupat

Asistent universitar

Numele și adresa angajatorului

Universitatea “Dunărea de Jos” din Galați – Facultatea de Inginerie, Departamentul Ingineria Materialelor și a Mediului

Tipul activității sau sectorul de activitate

Învățământ superior, activitate de cercetare științifică, activitate didactica, etc.

#### Perioada

23.03.2023 - prezent

Funcția sau postul ocupat

Cercetător științific

Numele și adresa angajatorului

Universitatea “Dunărea de Jos” din Galați

Tipul activității sau sectorul de activitate

Contract de finanțare nr. 760005 din 30.12.2022, cod 2, titlul. Inițierea și operaționalizarea unui centru de competență pentru sănătatea solului și siguranță alimentară - CeSoH. Director proiect. Prof. univ. dr. ing. Daniela Laura Buruiana

#### Perioada

12.04.2023 - prezent

Funcția sau postul ocupat

Cercetător științific

Numele și adresa angajatorului

Universitatea “Dunărea de Jos” din Galați

Tipul activității sau sectorul de activitate

Contract de finanțare nr. GI 9188/29.03.2023, titlul. Soluții inovatoare și emergente pentru valorificarea inteligență a deșeurilor industriale cu impact asupra terenurilor agricole contaminate (SOLVAL). Director proiect. S.l. univ. dr. ing. Viorica Ghisman

#### Perioada

24.03.2023 - prezent

Funcția sau postul ocupat

Cercetător științific

Numele și adresa angajatorului

Universitatea “Dunărea de Jos” din Galați

Tipul activității sau sectorul de activitate

Contract de cercetare științifică cu agent economic nr. 799/03.03.2023, titlul. Cercetare și consultanță în evaluarea comportamentului la coroziune marină a acoperirilor organice armate cu nanoparticule ceramice. Director proiect. Prof. univ. dr. ing. Daniela Laura Buruiana

**Perioada**

Mai 2022 - prezent

Funcția sau postul ocupat

Cercetător științific

Numele și adresa angajatorului

Universitatea "Dunărea de Jos" din Galați

Tipul activității sau sectorul de activitate

Contract de cercetare științifică cu agent economic nr. 785/03.03.2022, titlul. Studii privind comportarea la coroziune, în diferite medii corozive, a unor materiale utilizate pentru confecții metalice. Director proiect. Conf. univ. dr. chim. Mureșan Alina Crina

**Perioada**

iunie 2022 – mai 2023

Funcția sau postul ocupat

Cercetător științific

Numele și adresa angajatorului

Universitatea "Dunărea de Jos" din Galați

Tipul activității sau sectorul de activitate

Contract de finanțare nr. PCE 102/2022 Acronim: BioNanoSurf, PN-III-ID-PCE-2021-3, titlul Filme de oxid nanoporos și molecule bioactive obținute electrochimic pentru a îmbunătăți proprietățile biomaterialelor de implant pe bază de titan. Director proiect. Prof. Univ. Dr. chim. Lidia Benea

**Educație și****formare****Perioada**

01.10.2022-31.09.2023

Numele și tipul instituției de învățământ / furnizorului de formare

**Postdoctorand.** Domeniul: Ingineria Materialelor**Universitatea "Dunărea de Jos" din Galați****PROINVENT - Program pentru creșterea performanței și inovării în cercetarea doctorală și postdoctorală de excelență. Contract nr. 62487/03.06.2022****POCU/993/6/13 - Cod SMIS: 153299**

Titlul temei de cercetare postdoctorala "Studii privind posibilitati de reutilizare a zgurii haldabile in agricultura"

Nivelul în clasificarea națională sau internațională

Universitate Cercetare.

**Perioada**

01.10.2016-30.09.2020

Numele și tipul instituției de învățământ / furnizorului de formare

**Doctorand.** Domeniul: Ingineria Materialelor**Universitatea "Dunărea de Jos" din Galați – Facultatea de Inginerie**Titlul tezei de doctorat "Obținerea și caracterizarea în sistem tribocoroziv a straturilor nanostructurate în matrice de cobalt cu fază dispersă de particule bioceramice de CeO<sub>2</sub>"

Confirmat prin OMEC 6245 / 21.12.2020

Nivelul în clasificarea națională sau internațională

Universitate Cercetare.

**Perioada****Octombrie 2014 - Iulie 2016**

Calificarea / diploma obținută

Diploma de Master la programul de master „Calitatea Mediului și Dezvoltare Durabilă”

Numele și tipul instituției de învățământ / furnizorului de formare

Universitatea "Dunărea de Jos" din Galați – Facultatea de Inginerie

Nivelul în clasificarea națională sau internațională

Universitate. Inginerie. Ingineria mediului.

**Perioada****Octombrie 2010 – Iulie 2014**Calificarea / diploma  
obținută

Diploma de Inginer la programul de studii: Ingineria și Protecția Mediului în Industrie.

Numele și tipul  
instituției de învățământ  
/ furnizorului de  
formare

Universitatea “Dunarea de Jos” din Galați – Facultatea de Inginerie

Nivelul în clasificarea  
națională sau  
internațională

Universitate. Inginerie. Ingineria mediului.

**Aptitudini și****competențe personale**

Limba(i) maternă(e)

**Română**

Limba(i) străină(e)

cunoscută(e)

Autoevaluare

Nivel european (\*)

Limba

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conv.		Discurs oral		Exprimare scrisă	
B2	Engleză	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

**Competențe și  
abilități sociale**

- Bune competențe de comunicare dobândite prin experiența proprie în diferite domenii de activitate (locul de muncă, internship, sesiuni științifice în cadrul facultății, conferințe științifice naționale și internaționale).
- Spirit de echipă, dobândit ca urmare a lucrului în echipa pe, perioada facultății, studiilor doctorale cât și prin implicarea ca membru în echipele de cercetare la diverse proiecte.
- Ambitie, punctualitate, tenacitate, optimism, entuziasm, dinamism și pasiunea pentru reușita.
- Spirit analitic și obiectiv, dobândit de-a lungul anilor de studiu parcurși.

**Competențe și  
aptitudini de  
utilizare a  
calculatorului**

- O bună cunoaștere a operării pe calculator: MS Office (Excel, Word, Power Point.), Internet;
- Adaptare rapidă la modul de utilizare al oricărui program
- Competența în întocmirea / prezentarea de informații / date / rezultate cu ajutorul prezentărilor Power Point.

**Publicații  
Prezentări  
Conferințe  
Apartenență la  
societăți  
profesionale  
Cursuri  
perfecționare  
Premii****1. Articole cotate ISI Thomson Reuters cu Factor Impact**

**1.1. Bogatu, N.;** Muresan, A.C.; Mardare, L.; Ghisman, V.; Ravoiu, A (corresponding author); Dima, F.M. (corresponding author); Buruiana, D.L. **The Influence of Different Type Materials of Grit Blasting on the Corrosion Resistance of S235JR Carbon Steel.** *Inventions* 2023, 8, 39. <https://doi.org/10.3390/inventions8010039> Impact Factor = 3.400  
<https://www.mdpi.com/2411-5134/8/1/39>  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000945134600001>  
Accession Number WOS:000945134600001

**1.2. Nicoleta, Bogatu,** Benea Lidia, Buruiană Daniela-Laura, Bașliu Vasile, and Celis Jean-Pierre, **Nanostructuring Effect of Nano-CeO<sub>2</sub> Particles Reinforcing Cobalt Matrix during Electrodeposition Process.** *Nanomaterials* 2022, 12, 2923. <https://doi.org/10.3390/nano12172923> Impact Factor = 5.719, **Q2.**  
WOS:000851757400001

**1.3. Elena Roxana Axente, Lidia Benea, Nicoleta Bogatu, Jean - Pierre Celis, Susceptibility to**

- tribocorrosion degradation of 304 L stainless steel from dental structures in biological solution, *Tribology International*, Volume 174, October 2022, 107769, <https://doi.org/10.1016/j.triboint.2022.107769> Impact Factor = 5.620, Q1.  
WOS:000831630000002
- 1.4. Axente, E.R.; Benea, L.; Bogatu N (autor corespondent). **The Effect of Nano-ZrO<sub>2</sub> Dispersed Phase into Cobalt Plating Electrolyte on Layer Thickness and Current Efficiency.** *Coatings* 2022, 12, 962. <https://doi.org/10.3390/coatings12070962>. Impact Factor = 3.236, Q2.  
WOS:000833266700001
- 1.5. Bogatu, N, Benea, L, Axente, E.R, Celis, J.P. **Enhancement of Corrosion Resistance Properties of Electrodeposited Ni/nano-TiC Composite Layers.** *Int. J. Mol. Sci.* 2022, 23, 6069. <https://doi.org/10.3390/ijms23116069>. Impact Factor = 6.208, Q1.  
WOS:000809093800001
- 1.6. Nicoleta Simionescu – Bogatu, Lidia BENEĂ - **Effect of the Applied Current Density and Deposition Time on Electro-Codeposition Proces of Cobalt Matrix Reinforced with Nano-CeO<sub>2</sub>,** *Arch. Metall. Mater* 67 (2022), 2, 615-622. DOI: <https://doi.org/10.24425/amm.2022.137798> Impact Factor = 0.633  
WOS:000813491700005
- 1.7. Lidia Benea, Nicoleta Simionescu – Bogatu, Roxana Chiriac, **Electrochemically obtained Al<sub>2</sub>O<sub>3</sub> nanoporous layers with increased anticorrosive properties of aluminum alloy,** *Journal of Materials Research and Technology*, Volume 17, March–April 2022, Pages 2636-2647 <https://doi.org/10.1016/j.jmrt.2022.02.038>. Impact Factor = 6.267, Q1.  
WOS:000804057700008
- 1.8. Lidia Benea, Nicoleta Simionescu-Bogatu (corresponding author), **Reactivity and Corrosion Behaviors of Ti6Al4V Alloy Implant Biomaterial under Metabolic Perturbation Conditions in Physiological Solutions,** *Materials* 2021, 14(23), 7404; Impact Factor = 3.623, Q1 <https://doi.org/10.3390/ma14237404>. WOS:000735155700001
- 1.9. Buruiana Daniela Laura, Herbei Elena Emanuela, Ceoromila Alina Mihaela , Busila Mariana , Trus Constantin, **Bogatu Nicoleta (Simionescu)** , Ghisman Viorica, **Investigation of Corrosion of A and E36 Naval Steels Using Potentiodynamic Polarization and Modified Prohesion Test,** *Int. J. Electrochem. Sci.*, Vol. 16 (octombrie 2021) 21111, doi: 10.20964/2021.11.37. Impact Factor = 1.765, Q4. <http://www.electrochemsci.org/papers/vol16/21111.pdf>  
WOS:000718320200005
- 1.10. Lidia Benea, **Nicoleta Simionescu,** **Impact of Hydrogen Peroxide and Albumin on the Corrosion Behavior of Titanium Alloy (Ti6Al4V) in Saline Solution,** *Int. J. Electrochem. Sci.*, Vol. 16 ( februarie 2021) 210244, doi: 10.20964/2021.02.39. Impact Factor = 1.765, Q4. <http://www.electrochemsci.org/papers/vol16/210244.pdf>  
WOS:000620082300036
- 1.11. Lidia Benea, **Nicoleta Simionescu,** Laurentiu Mardare, **The effect of polymeric protective layers and the immersion time on the corrosion behavior of naval steel in natural seawater,** *Journal of Materials Research and Technology*, Volume 9, Issue 6, November–December 2020, Pages 13174-13184. <https://doi.org/10.1016/j.jmrt.2020.09.059> . Impact Factor = 5.289, Q1.  
WOS:000606532900010
- 1.12. Lidia Benea, **Nicoleta Simionescu,** Jean Pierre Celis, **Electro-codeposition of CeO<sub>2</sub> nanoparticles into cobalt matrix to improve the tribocorrosion performances of Co/nano CeO<sub>2</sub> composite layers in biological solution for medical applications,** *Journal of the Mechanical Behavior of Biomedical Materials*, Volume 101, January 2020, 103443. <https://doi.org/10.1016/j.jmbbm.2019.103443>. Impact Factor = 3.902, Q1  
WOS:000502881800029
- 1.13. **Simionescu Nicoleta,** Ravoiu Anca, Lidia Benea, **Electrochemical in vitro Properties of 316L Stainless Steel for Orthodontic Applications,** *Revista de Chimie*, 2019, Vol. 70, Issue 4, p. 1144-1148. Impact Factor = 1.605, Q3

WOS:000469387200008

1.14. Lidia Benea, Laurentiu Mardare, **Nicoleta Simionescu**, **Anticorrosion performances of modified polymeric coatings on E32 naval steel in sea water.**, 2018, Progres in organic coatings vol 123, p. 120-127. <https://doi.org/10.1016/j.porgcoat.2018.06.020>, Impact Factor = 3.420, Q1

WOS:000444357000013

## 2. Articole publicate în volume indexate ISI Proceedings

2.1. **N Simionescu**, L Benea and V M Dumitrascu, **The Synergistic Effect of Proteins and Reactive Oxygen Species on Electrochemical Behaviour of 316L Stainless Steel for Biomedical Applications**. IOP Conf. Series: Materials Science and Engineering **374** (2018) 012058. <https://iopscience.iop.org/article/10.1088/1757-899X/374/1/012058/pdf>

Accession Number: WOS:000446775900058

doi: 10.1088/1757-899X/374/1/012058

2.2. V M Dumitrascu, L Benea and **N L Simionescu**, **Evaluation of Sealing Process on the Surface Properties of Nanoporous Aluminum Oxide Layers Electrochemically Growth on 1050 Aluminum Alloy Surface**. IOP Conf. Series: Materials Science and Engineering **374** (2018) 012013. <https://iopscience.iop.org/article/10.1088/1757-899X/374/1/012013/pdf>

Accession Number: WOS:000446775900013

doi:10.1088/1757-899X/374/1/012013.

## 3. Publicatii în jurnale indexate în baze de date internaționale (BDI)

3.1. Bogdan Rosu, Gabriel Murariu, Maxim Arseni, Catalina Iticescu, George Mocanu, **Nicoleta-Lucica Simionescu**, Adrian Rosu, "Study on optimizing the effluent quality parameters for a simulated wastewater treatment plant using dynamic two-dimensional reference point generation: A comparative approach," 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 2023, pp. 1-4, doi: 10.1109/ETFA54631.2023.10275667.

<https://ieeexplore.ieee.org/abstract/document/10275667/authors#authors>

3.2. L. Benea and N. Bogatu, "Electrochemical corrosion assessment of 316L stainless steel for dental structures in saliva solution," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991580.

<https://ieeexplore.ieee.org/abstract/document/9991580>

3.3. L. Benea, V. Neaga and N. Bogatu, "Corrosion Reactivity in the Pre-clinical Study of 23 Grade Titanium Alloy in Ringer Solution," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 01-04, doi: 10.1109/EHB55594.2022.9991355.

<https://ieeexplore.ieee.org/document/9991355>

3.4. **Nicoleta Bogatu**, Marius Mocanu, Viorica Ghisman, Daniela-Laura Buruiana, **Studies on the possibilities of improving plastic management services**, *THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE* No 4 - 2022, ISSN 2668-4748; e-ISSN 2668-4756, pp. 104-113.

<https://doi.org/10.35219/mms.2022.4.18>

3.5. Lidia Benea, **Nicoleta Simionescu**, **Effect of Biological Solution and pH on Corrosion Resistance of 304L SS for Dental Brackets**, *Revista de Chimie*, 2020, Vol. 71, Issue 4, p. 180-187, <https://doi.org/10.37358/RC.20.4.8056>

3.6. L Benea , **N Simionescu**, **Evaluation of corrosion resistance of implant-use Ti6Al4V alloy in Hank biological solution in the presence of microorganism's metabolic product Lactic Acid**, *The Annals of "Dunarea de Jos" University of Galati Fascicle IX. Metallurgy and Materials Science*, No. 1 - 2020, ISSN 2668-4748; e-ISSN 2668-4756, Pages 31-38. <https://doi.org/10.35219/mms.2020.1.04>.

- 3.7. N Simionescu, L Benea, A Chiriac, **The Effect of H<sub>2</sub>O<sub>2</sub> and Lactic Acid Addition in Biological Saliva on the Corrosion Behaviour of 304L Stainless Steel**, IOP Conf. Ser.: Mater. Sci. Eng. 877 (2020) 012039. <https://doi.org/10.1088/1757-899X/877/1/012039>**
- 3.8. V Basliu, L Benea, N Simionescu, **Influence of the Imposed Parameters on XRD Patterns of Electrochemically Top-Down Obtained Nanoporous Al<sub>2</sub>O<sub>3</sub> on Al1050 Alloy**, IOP Conf. Series: Materials Science and Engineering 877 (2020) 012011. <https://doi.org/10.1088/1757-899X/877/1/012011>**
- 3.9. N Simionescu, L Benea, J P Celis, **Wear-Corrosion Response of Cerium Oxide Reinforced Cobalt Hybrid Composite Layers in Biological Solution**, IOP Conf. Ser.: Mater. Sci. Eng. 572 (2019) 012003. <https://iopscience.iop.org/article/10.1088/1757-899X/572/1/012003/pdf>  
DOI:10.1088/1757-899X/572/1/012003.**
- 3.10. L Benea , N Simionescu, **Corrosion Behavior of Ni/WC Nano-Structured Composite Layers Synthesized by Electrochemical Method**, IOP Conf. Ser.: Mater. Sci. Eng. 572 (2019) 012004, <https://iopscience.iop.org/article/10.1088/1757-899X/572/1/012004/pdf>  
DOI: 10.1088/1757-899X/572/1/012004**
- 3.11. L Dragus, L Benea, N Simionescu, A Ravoiu, V Neaga, **Effect of the Inflammatory Conditions and Albumin Presence on the Corrosion Behavior of Grade 5 Titanium Alloy in Saliva Biological Solution**, IOP Conf. Ser.: Mater. Sci. Eng. 572 (2019) 012005. <https://iopscience.iop.org/article/10.1088/1757-899X/572/1/012005/pdf>  
DOI: 10.1088/1757-899X/572/1/012005.**
- 3.12. Anca Ravoiu, Nicoleta Simionescu, Lidia Benea, **Influence of different concentration of hydrogen peroxide on the corrosion behavior of Ti-6Al-4V alloy immersed in physiological solution**, IOP Conf. Ser.: Mater. Sci. Eng. 572 (2019) 012006. <https://iopscience.iop.org/article/10.1088/1757-899X/572/1/012006/pdf>  
DOI: 10.1088/1757-899X/572/1/012006.**
- 3.13. Nicoleta Simionescu, Lidia Benea, Anca Ravoiu, **Effect of hydrogen peroxide addition to phosphate buffered saline solutions on corrosion resistance of 316l stainless steel**, *Proceeding Volume of 18th International Multidisciplinary Scientific GeoConference SGEM 2018*, Volume:18, Book number: 6.1, Pages:169-176, ISSN: 1314-2704, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.  
Doi: 10.5593/sgem2018/6.1.**
- 3.14. Valentin Marian Dumitrascu, Lidia Benea, Nicoleta Lucica Simionescu, **Surfaces morphology, roughness and wetting properties of nanoporous aluminum oxide film formed on 1050 aluminum alloy by controlled electrochemical oxidation**, *Proceeding Volume of 18th International Multidisciplinary Scientific GeoConference SGEM 2018*, Volume:18, Book number: 6.1, Pages:473-480, ISSN: 1314-2704, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.  
Doi: 10.5593/sgem2018/6.1.**
- 3.15. Nicoleta Lucica Simionescu, Lidia Benea; **The corrosion behavior of 316l stainless steel in different simulated body fluids solutions**, *Proceeding Volume of 17th International Multidisciplinary Scientific GeoConference SGEM 2017*, Volume:17, Book number: 61, Pages: 353-360, ISSN: 1314-2704, 24. Section Micro and Nano Technologies, 29 June - 5 July, 2017, Albena, Bulgaria.  
<https://doi.org/10.5593/sgem2017/61>**

#### **4. Conferințe și lucrări științifice prezentate la congrese internaționale**

- 4.1. Viorica Ghisman, Daniela Laura Buruiana, Nicoleta Bogatu, **Research Studies Regarding****

**the Recycling of Waste Slag to improve Soil Acidity**, International Conference on Research in Science, Engineering and Technology (ICRSET) held in Barcelona, Spain, 23-24 July 2023.

**4.2. Marin Mihaela, Buruiană Daniela Laura, Mocanu Alina Maria, Marin Florin Bogdan, Bogatu Nicoleta Lucica, Heart Rate Monitoring Device Using Arduino Platform, International Conference on Biomaterials and Regenerative Medicine BIOREMED'2023, Sibiu (Romania), July 19-21th, 2023.** <https://bioremed.ro/wp-content/uploads/2023/07/Program-total-Final-Print.pdf>

**4.3. Bogdan Rosu, Gabriel Murariu, Maxim Arseni, Catalina Iticescu, George Mocanu, Nicoleta-Lucica Simionescu, Adrian Rosu, "Study on optimizing the effluent quality parameters for a simulated wastewater treatment plant using dynamic two-dimensional reference point generation: A comparative approach,"** Prezentare orală, 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 12-15 September 2023.  
<https://2023.ieee-etfa.org/program/>

**4.4. Laurentiu Mardare, Nicoleta Bogatu, Daniela Laura Buruiana, Corrosion resistance of protective coatings under harsh marine environment exposure conditions, „Interdisciplinarity and Cooperation in Cross-Border Research” International Conference”** October 19-21 2023, Cahul - Republic of Moldova

**4.5. Nicoleta BOGATU** , Floricel Maricel DIMA, Alina Crina MURESAN , Cristian Dragos OBREJA, Viorica GHISMAN, Daniela Laura BURUIANA, **Improving the Fertile Properties of Lands with Risk of Desertification in Order to Conserve Agricultural Areas**, *Poster presentation*, International Conference on Innovative Research, Iasi, 11th – 12<sup>th</sup> of May 2023.  
<http://www.euroinvent.org/conference/program/>  
[http://www.euroinvent.org/cat/icir\\_2023.pdf](http://www.euroinvent.org/cat/icir_2023.pdf)

**4.6. N. Bogatu, L. Mardare , V. Ghisman, A.C. Muresan and D.L. Buruiana, The influence of different type materials of grit blasting on the corrosion resistance and surface properties of S235JR carbon steel,** *Poster presentation*, 9<sup>th</sup> International Conference on Materials Science and Technologies – RoMAT 2022 November 24-25, 2022, Bucharest, Romania  
[www.romat2022.ro](http://www.romat2022.ro)  
[https://romat2022.ro/wp-content/uploads/2022/11/RoMAT-2022\\_Conference-Program-Book-of-Abstracts\\_v3.pdf](https://romat2022.ro/wp-content/uploads/2022/11/RoMAT-2022_Conference-Program-Book-of-Abstracts_v3.pdf)

**4.7. A.C. Muresan, V. Ghisman, N. Bogatu, and D.L. Buruiana, Microbiologically influenced corrosion of polymer/Zn hybrid coatings by Desulfovibrio vulgaris,** *Poster presentation*, 9<sup>th</sup> International Conference on Materials Science and Technologies – RoMAT 2022 November 24-25, 2022, Bucharest, Romania  
[www.romat2022.ro](http://www.romat2022.ro)  
[https://romat2022.ro/wp-content/uploads/2022/11/RoMAT-2022\\_Conference-Program-Book-of-Abstracts\\_v3.pdf](https://romat2022.ro/wp-content/uploads/2022/11/RoMAT-2022_Conference-Program-Book-of-Abstracts_v3.pdf)

**4.8. Lidia Benea, Nicoleta Bogatu, Electrochemical corrosion assessment of 316L stainless steel for dental structures in saliva solution,** *Oral Presentation*, The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022, Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 17-18, 2022.  
[http://www.ehbconference.ro/Portals/0/EHB2022\\_Detailed\\_Program.pdf](http://www.ehbconference.ro/Portals/0/EHB2022_Detailed_Program.pdf)

**4.9. Lidia Benea, Veaceslav Neaga, Nicoleta Bogatu, Corrosion Reactivity in the Pre-clinical Study of 23 Grade Titanium Alloy in Ringer Solution,** *Oral Presentation*, The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022, Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 17-18, 2022.  
[http://www.ehbconference.ro/Portals/0/EHB2022\\_Detailed\\_Program.pdf](http://www.ehbconference.ro/Portals/0/EHB2022_Detailed_Program.pdf)

**4.10. Nicoleta Bogatu, Georgiana Ghisman, Cristian-Dragos Obreja, Viorica Ghisman, Daniela Laura Buruiana, Re-use of slag waste in the agricultural sector,** *Poster presentation*, 25<sup>th</sup> Edition ECOMONDO The Green Technology EXPO, 8-9 November 2022, Rimini, Italia  
<https://en.ecomondo.com/events/program/seminars-and-conferences/e20338547/waste-as-resources-innovative-technologies-for-recycling-and-recovery.html>

- 4.11. Nicoleta Bogatu, Lidia Benea, Elena Roxana Axente, Jean Pierre Celis, Enhancement of Corrosion Resistance Properties of Electrodeposited Ni/nano-TiC Composite Layers, Oral presentation, International Conference on Innovative Research, Iasi, 26th – 27<sup>th</sup> of May 2022.** [http://www.euroinvent.org/conference/wp-content/uploads/2022/05/icir\\_2022.pdf](http://www.euroinvent.org/conference/wp-content/uploads/2022/05/icir_2022.pdf)  
<https://www.euroinvent.org/conference/program/>
- 4.12. Elena Roxana Axente, Lidia Benea, Nicoleta Bogatu, The Effect of Nano-ZrO<sub>2</sub> Dispersed Phase into Cobalt Plating Electrolyte on Layer Thickness and Current Efficiency, Oral presentation, International Conference on Innovative Research, Iasi, 26th – 27<sup>th</sup> of May 2022.** [http://www.euroinvent.org/conference/wp-content/uploads/2022/05/icir\\_2022.pdf](http://www.euroinvent.org/conference/wp-content/uploads/2022/05/icir_2022.pdf)  
<https://www.euroinvent.org/conference/program/>
- 4.13. Nicoleta SIMIONESCU (BOGATU) - Current Density and Time Effect Applied During Electro-codeposition Process on Resulted Cobalt Matrix Reinforced with Nano-CeO<sub>2</sub> Particles, Oral presentation, International Conference on Innovative Research, Iasi, 20th – 21<sup>th</sup> of May 2021.**  
[http://www.euroinvent.org/cat/ICIR\\_2021.pdf](http://www.euroinvent.org/cat/ICIR_2021.pdf)  
<http://www.euroinvent.org/conference/program/>
- 4.14. Viorica Plescan Ghisman, Nicoleta Simionescu, Gabriel-Bogdan Carp, Daniela Laura Buruiană, Experimental studies on the influence of slag on surface water, Oral presentation (OP3), International Conference on Materials Science & Engineering (UgalMat) December 8-9, 2020, Galati, Romania.**  
[https://ugalmat.ugal.ro/images/2020/UGALMAT\\_2020\\_PROGRAMME.pdf](https://ugalmat.ugal.ro/images/2020/UGALMAT_2020_PROGRAMME.pdf)
- 4.15. Nicoleta Simionescu, L. Benea, Current efficiency, roughness and wetting properties of CeO<sub>2</sub>/Co nanocomposite layers obtained by electro-codeposition, Oral presentation (O3), 8th International Conference on Materials Science and Technologies (ROMAT) Bucharest, Romania, November 26-27th, 2020.**  
<http://www.sim.pub.ro/index.php/47-noutati/anunturi/227-romat2020>
- 4.16. N Simionescu, L Benea, A Chiriac, The Effect of H<sub>2</sub>O<sub>2</sub> and Lactic Acid addition in Biological Saliva on the Corrosion Behaviour of 304L Stainless Steel, Poster presentation. International Conference on Innovative Research, Iasi, 21th – 22th of May 2020.**  
[http://www.euroinvent.org/conference/doc/Program\\_ICIR\\_2020.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR_2020.pdf)
- 4.17. V Basliu, L Benea, N Simionescu, Influence of the Imposed Parameters on XRD Patterns of Electrochemically Top-Down Obtained Nanoporous Al<sub>2</sub>O<sub>3</sub> on Al1050 Alloy, Poster presentation. International Conference on Innovative Research, Iasi, 21th – 22th of May 2020.**  
[http://www.euroinvent.org/conference/doc/Program\\_ICIR\\_2020.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR_2020.pdf)
- 4.18. N Simionescu, L Benea, J P Celis, Wear-Corrosion Response of Cerium Oxide Reinforced Cobalt Hybrid Composite Layers in Biological Solution, Oral presentation. International Conference on Innovative Research, Iasi, 16th – 17th of May 2019.**  
[http://www.euroinvent.org/conference/doc/Program\\_ICIR2019.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2019.pdf)
- 4.19. Nicoleta Simionescu, Lidia Benea, Anca Ravoii, The influence of dispersed CeO<sub>2</sub> nanoparticles on the electro-crystallization mechanism of cobalt, Oral presentation. The V<sup>th</sup> international conference "New trends in environmental and materials engineering" (TEME 2019), 23-25 October 2019, Galați, Romania.**  
[www.teme.ugal.ro](http://www.teme.ugal.ro)  
[http://www.teme.ugal.ro/Program\\_COMPLET\\_TEME\\_2019.pdf](http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf)
- 4.20. Anca Ravoii, Lidia Benea, Nicoleta Lucica Simionescu, Alexandru Chiriac, Influence of inflammatory conditions on the corrosion behavior of titanium alloy in buffered biological solution, Oral presentation. The V<sup>th</sup> international conference "New trends in environmental and**



materials engineering" (TEME 2019), 23-25 October 2019, Galați, Romania.

[www.teme.ugal.ro](http://www.teme.ugal.ro)

[http://www.teme.ugal.ro/Program\\_COMPLET\\_TEME\\_2019.pdf](http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf)

**4.21. L Benea , N Simionescu, Corrosion Behavior of Ni/WC Nano-Structured Composite Layers Synthesized by Electrochemical Method, *Oral presentation*. International Conference on Innovative Research, Iasi, 16th – 17th of May 2019. [http://www.euroinvent.org/conference/doc/Program\\_ICIR2019.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2019.pdf)**

**4.22. L Dragus, L Benea, N Simionescu, A Ravoiiu, V Neaga, Effect of the Inflammatory Conditions and Albumin Presence on the Corrosion Behavior of Grade 5 Titanium Alloy in Saliva Biological Solution, *Oral presentation*. International Conference on Innovative Research, Iasi, 16th – 17th of May 2019 [http://www.euroinvent.org/conference/doc/Program\\_ICIR2019.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2019.pdf)**

**4.23. Anca Ravoiiu, Nicoleta Simionescu, Lidia Benea, Influence of different concentration of hydrogen peroxide on the corrosion behavior of Ti-6Al-4V alloy immersed in physiological solution, *Oral presentation*. International Conference on Innovative Research, Iasi, 16th – 17th of May 2019 [http://www.euroinvent.org/conference/doc/Program\\_ICIR2019.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2019.pdf)**

**4.24. Nicoleta Simionescu, Lidia Benea, Anca Ravoiiu, Effect of hydrogen peroxide addition to phosphate buffered saline solutions on corrosion resistance of 316L stainless steel, *Oral presentation*. 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria. [www.sgem.org](http://www.sgem.org) <http://www.sgem.org/index.php/sgem-deadline/sgem-programme2018>.**

**4.25. Valentin Marian Dumitrascu, Lidia Benea, Nicoleta Lucica Simionescu, Surfaces morphology, roughness and wetting properties of nanoporous aluminum oxide film formed on 1050 aluminum alloy by controlled electrochemical oxidation. *Oral presentation*. 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria, [www.sgem.org](http://www.sgem.org) <http://www.sgem.org/index.php/sgem-deadline/sgem-programme2018>.**

**4.26. N Simionescu, L Benea and V M Dumitrascu, The Synergistic Effect of Proteins and Reactive Oxygen Species on Electrochemical Behaviour of 316L Stainless Steel for Biomedical Applications. *Poster presentation*. ICIR Euroinvent 2018, International Conference on Innovative Research, Iasi, 17th – 18th of May 2018. [http://www.euroinvent.org/conference/doc/Program\\_ICIR2018.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2018.pdf)**

**4.27. V M Dumitrascu, L Benea and N L Simionescu. Evaluation of Sealing Process on the Surface Properties of Nanoporous Aluminum Oxide Layers Electrochemically Growth on 1050 Aluminum Alloy Surface. *Oral presentation*. ICIR Euroinvent 2018, International Conference on Innovative Research, Iasi, 17th – 18th of May 2018. [http://www.euroinvent.org/conference/doc/Program\\_ICIR2018.pdf](http://www.euroinvent.org/conference/doc/Program_ICIR2018.pdf)**

**4.28. Nicoleta Simionescu, Lidia Benea, Anca Ravoiiu, The effect of commercial juices on the corrosion resistance of 316L stainless steel used for orthodontic applications. *Oral presentation*. UgalMat 2018 - Conference on Material Science & Engineering, October 11-13, 2018, Galati, Romania. [www.ugalmat.ugal.ro/](http://www.ugalmat.ugal.ro) <http://www.ugalmat.ugal.ro/FINAL%20PROGRAMME%20UgalMat2018.pdf>**

**4.29. Nicoleta Simionescu, Sara Hondrilă, Lidia Benea, Corrosion - A major problem in the functioning of the installations: Assessment of copper and brass corrosion resistance in water and chloride content solutions. *Oral presentation*. UgalMat 2018 - Conference on**

Material science & engineering, October 11-13, 2018, Galati, Romania.

[www.ugalmat.ugal.ro/](http://www.ugalmat.ugal.ro/)

<http://www.ugalmat.ugal.ro/FINAL%20PROGRAMME%20UgalMat2018.pdf>

**4.30. Lidia Benea, Nicoleta Simionescu, Anca Ravoii, Corrosion resistance of 304L stainless steel for orthodontic fixed appliances in saliva and different pH solutions from food or drinks. Oral presentation. UgalMat 2018 - Conference on Material Science & Engineering, October 11-13, 2018, Galati, Romania.**

[www.ugalmat.ugal.ro/](http://www.ugalmat.ugal.ro/)

<http://www.ugalmat.ugal.ro/FINAL%20PROGRAMME%20UgalMat2018.pdf>

**4.31. Valentin Dumitrascu, Nicoleta Simionescu, Lidia Benea, Optimizing the electrochemical parameters to obtain a nanoporous aluminum oxide on 1050 aluminum alloy: A SEM-EDX and hydrophobicity study. Oral presentation. UgalMat 2018 - Conference on Material Science & Engineering, October 11-13, 2018, Galati, Romania.**

[www.ugalmat.ugal.ro/](http://www.ugalmat.ugal.ro/)

<http://www.ugalmat.ugal.ro/FINAL%20PROGRAMME%20UgalMat2018.pdf>

**4.32. Nicoleta Simionescu, Lidia Benea. Electrochemical in-vitro properties of 316L stainless steel for orthodontic applications, Oral presentation. The fourth international conference "New trends in environmental and materials engineering" (TEME 2017), 25-27 October 2017, Galați, Romania.**

[www.teme.ugal.ro](http://www.teme.ugal.ro)

[http://www.teme.ugal.ro/Program\\_TEME\\_2017.pdf](http://www.teme.ugal.ro/Program_TEME_2017.pdf)

**4.33. Nicoleta Lucica Simionescu, Lidia Benea; The corrosion behavior of 316l stainless steel in different simulated body fluids solutions, Poster presentation. 17th International Multidisciplinary Scientific GeoConference SGEM 2017, 24. Section Micro and Nano Technologies, 29 June - 5 July, 2017, Albena, Bulgaria, [www.sgem.org](http://www.sgem.org)**

<http://www.sgem.org/index.php/sgem-deadline/sgem-programme2017>.

## 5. Conferințe și lucrări științifice prezentate la congrese naționale

**5.1. Nicoleta Bogatu, Floricel Maricel Dima, Viorica Ghisman, Georgiana Ghisman, Anca Ravoii, Daniela-Laura Buruiana, Improvement of soil properties with dumped slag for the cultivation of triticum aestivum species**

Poster presentation. SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2023, The 11th Edition, Perspectives and challenges in doctoral research, GALAȚI, 8th-9th of June 2023. S.4: Advances In Engineering And Management In Agriculture And Rural Development

<http://www.cssd-udjg.ugal.ro/>

<https://cssd-udjg.ugal.ro/images/2023/08/Program%20CSSD%202023.pdf>

**5.2. G. GHISMAN, N. BOGATU, V. GHISMAN, D. L. BURUIANĂ, Studii privind posibilitățile de reutilizare ale apei de răcire a zgurii în ameliorarea solurilor acide, Poster presentation (P27), Abordări moderne ale feedbackului între procese de mediu și schimbările climatice”, 6-9 iulie 2022, Galați.**

[https://www.rexdan.ugal.ro/images/2022/Program\\_workshop\\_6-9\\_iul\\_complet\\_verificat.pdf](https://www.rexdan.ugal.ro/images/2022/Program_workshop_6-9_iul_complet_verificat.pdf)

**5.3. Nicoleta Simionescu, Lidia Benea, Influence of current density on the electrodeposition of CeO<sub>2</sub> nanoparticle into cobalt matrix on 304L stainless steel substrate.**

Oral presentation. SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2020, The 8th Edition, Perspectives and challenges in doctoral research, GALAȚI, 18th-19th of June 2020. S.6: Future of Eco-nanotechnologies, Functional Materials and Coatings. Această lucrare a primit premiul I.

<http://www.cssd-udjg.ugal.ro/>

<http://www.cssd-udjg.ugal.ro/index.php/programme-2020>

**5.4. Lidia Benea, Nicoleta Simionescu, The influence of different concentration of Lactic acid added in simulated body fluid solution as a function in time on the corrosion behavior of titanium alloy.**

- Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2020, The 8th Edition, Perspectives and challenges in doctoral research, GALAȚI, 18th-19th of June 2020. S.6: Future of Eco-nanotechnologies, Functional Materials and Coatings.  
<http://www.cssd-udjg.ugal.ro/>  
<http://www.cssd-udjg.ugal.ro/index.php/programme-2020>
- 5.5. Nicoleta Lucica Simionescu,** Valentin Marian Dumitrascu, Lidia Benea, **Improving corrosion resistance of aluminium alloy by top-down nano-electrochemical film growth.**  
*Poster presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2020, The 8th Edition, Perspectives and challenges in doctoral research, GALAȚI, 18th-19th of June 2020. S.6: Future of Eco-nanotechnologies, Functional Materials and Coatings.  
<http://www.cssd-udjg.ugal.ro/>  
<http://www.cssd-udjg.ugal.ro/index.php/programme-2020>
- 5.6. Nicoleta Lucica Simionescu,** Laurentiu Mardare, Lidia Benea, **Modification of surface properties as roughness, microhardness and hydrophobicity of polymeric primer used to protect maritime structures made of E32 steel.**  
*Poster presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2020, The 8th Edition, Perspectives and challenges in doctoral research, GALAȚI, 18th-19th of June 2020. S.6: Future of Eco-nanotechnologies, Functional Materials and Coatings.  
<http://www.cssd-udjg.ugal.ro/>  
<http://www.cssd-udjg.ugal.ro/index.php/programme-2020>
- 5.7. Nicoleta Simionescu,** Lidia Benea, **Tribocorrosion behavior of 304L stainless steel in sliding contact immersed in Hank biological solution.**  
*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2019, The seventh Edition, Perspectives and challenges in doctoral research, GALAȚI, 13th-14th of June 2019. S.5.1: Emerging nanotechnology and future of advanced materials and coatings.  
<http://www.cssd-udjg.ugal.ro/>  
[http://www.cssd-udjg.ugal.ro/files/2019/Program\\_detaliat\\_al\\_conferintei\\_nou\\_2.pdf](http://www.cssd-udjg.ugal.ro/files/2019/Program_detaliat_al_conferintei_nou_2.pdf)
- 5.8. Nicoleta Simionescu,** Lidia Benea. **Surface modification of metallic biomaterials to improve the body integration and corrosion resistance in body environment.**  
*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2019, The seventh Edition, Perspectives and challenges in doctoral research, GALAȚI, 13th-14th of June 2019. S.5.1: Emerging nanotechnology and future of advanced materials and coatings. **Această lucrare a primit premiul I.**  
<http://www.cssd-udjg.ugal.ro/>  
[http://www.cssd-udjg.ugal.ro/files/2019/Program\\_detaliat\\_al\\_conferintei\\_nou\\_2.pdf](http://www.cssd-udjg.ugal.ro/files/2019/Program_detaliat_al_conferintei_nou_2.pdf)
- 5.9.** Lidia Benea, **Nicoleta Simionescu,** Laurențiu Dragus, Veaceslav Neaga, Anca Ravoii. **Effect of the presence of hydrogen peroxide reactive oxygen species on the corrosion behavior of titanium alloy in buffered saline solution.**  
*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2019, The seventh Edition, Perspectives and challenges in doctoral research, GALAȚI, 13th-14th of June 2019. S.5.1: Emerging nanotechnology and future of advanced materials and coatings.  
<http://www.cssd-udjg.ugal.ro/>  
[http://www.cssd-udjg.ugal.ro/files/2019/Program\\_detaliat\\_al\\_conferintei\\_nou\\_2.pdf](http://www.cssd-udjg.ugal.ro/files/2019/Program_detaliat_al_conferintei_nou_2.pdf)
- 5.10. Nicoleta SIMIONESCU,** Lidia Benea, Anca Ravoii. **Effect of human serum albumin on the corrosion behaviour of 316L stainless steel in phosphate buffered saline solution.**  
*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2018, The Sixth Edition, Perspectives and challenges in doctoral research, GALAȚI, 7th-8th of June 2018. S.5.1: Emerging nanotechnology and future of advanced materials and coatings. **Această lucrare a primit premiul al III-lea.**  
<http://www.cssd-udjg.ugal.ro/>  
[http://www.cssd-udjg.ugal.ro/files/2018/05\\_Program\\_detaliat\\_al\\_conferintei\\_2018.pdf](http://www.cssd-udjg.ugal.ro/files/2018/05_Program_detaliat_al_conferintei_2018.pdf)
- 5.11.** Lidia Benea, **Nicoleta Simionescu,** Anca Ravoii. **Effect of pH and biological solution composition on corrosion resistance of 304L stainless steel for orthodontic fixed appliances.**  
*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2018, The Sixth Edition, Perspectives and challenges in doctoral research, GALAȚI, 7th-8th of June 2018. S.5.1: Emerging nanotechnology and future of advanced materials and coatings.  
<http://www.cssd-udjg.ugal.ro/>  
[http://www.cssd-udjg.ugal.ro/files/2018/05\\_Program\\_detaliat\\_al\\_conferintei\\_2018.pdf](http://www.cssd-udjg.ugal.ro/files/2018/05_Program_detaliat_al_conferintei_2018.pdf)

**5.12.** Anca Răvoiu, Lidia Benea, Nicoleta Simionescu, Alexandru Chiriac. **Hydrogen peroxide and its effect on electrochemical behavior of titanium implant alloy.**

*Poster presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2018, The Sixth Edition, Perspectives and challenges in doctoral research, GALAȚI, 7th-8th of June 2018. S.5.1: Emerging nanotechnology and future of advanced materials and coatings.

<http://www.cssd-udjg.ugal.ro/>

[http://www.cssd-udjg.ugal.ro/files/2018/05\\_Program\\_detaliat\\_al\\_conferintei\\_2018.pdf](http://www.cssd-udjg.ugal.ro/files/2018/05_Program_detaliat_al_conferintei_2018.pdf)

**5.13.** Valentin Marian Dumitrașcu, Lidia Benea, Nicoleta Lucica Simionescu. **Performance evaluation of nanoporous aluminum oxide layers obtained by controlled anodic oxidation process.**

*Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2018, The Sixth Edition, Perspectives and challenges in doctoral research, GALAȚI, 7th-8th of June 2018. S.5.1: Emerging nanotechnology and future of advanced materials and coatings.

<http://www.cssd-udjg.ugal.ro/> **Această lucrare a primit premiul I.**

[http://www.cssd-udjg.ugal.ro/files/2018/05\\_Program\\_detaliat\\_al\\_conferintei\\_2018.pdf](http://www.cssd-udjg.ugal.ro/files/2018/05_Program_detaliat_al_conferintei_2018.pdf)

**5.14.** Nicoleta Simionescu, Lidia Benea, **Electrochemical Study of 316L Stainless Steel as an Effective Biomaterial for Orthodontic Applications**, *Oral presentation.* SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, SCDS-UDJG 2017, The fifth Edition, Perspectives and challenges in doctoral research, GALAȚI, 8th-9th of June 2017. S.4: Advanced investigation methods in environment and biohealth. **Această lucrare a primit Premiul III.**

<http://www.cssd-udjg.ugal.ro/>

[http://www.cssd-udjg.ugal.ro/files/2017/Program\\_detaliat\\_al\\_conferintei\\_2017\\_FINAL.pdf](http://www.cssd-udjg.ugal.ro/files/2017/Program_detaliat_al_conferintei_2017_FINAL.pdf)

## 6. Brevete

**Inventatori:** Daniela Laura Buruiana, Puiu Lucian Georgescu, Viorica Ghisman, Nicoleta Lucica Bogatu, Georgiana Ghisman, Elena Roxana Axente, Cătălin Aramă.

**Titlu:** **Mixtură de absorbție a hidrocarburilor petroliere, folosind dolomită.**

Nr. A 2023 00187 / 12.04.2023

Priorities RO202300187A·2023-04-12

Application RO202300187A·2023-04-12

Publication RO137696A0·2023-10-30

Published as RO137696A0

[https://osim.ro/images/Publicatii/Inventii/2023/inv\\_10\\_2023.pdf](https://osim.ro/images/Publicatii/Inventii/2023/inv_10_2023.pdf)

<https://worldwide.espacenet.com/patent/search/family/088507078/publication/RO137696A0?q=Buruiana%20Daniela%20Laura>

## 7. Apartenență la societăți profesionale

1. Societatea Română de Chimie

## 8. Cursuri perfecționare

1. 2023. Mentorat și coaching în învățământul universitar
2. 2023. Etică și deontologie academică
3. 2023. Limba engleză
4. 2023. Strategii inovative în cercetare
5. 2023. Competențe și abilități în domeniul obținerii oțelului verde
6. 2021. Creează un curs și ajută-i pe tineri să se dezvolte

## 9. Premii

1. Medalie de aur ICAN 2023
2. Medalie de aur Innoverse Innovation & Invention Expo 2023 USA
3. Best Poster presentation 9 th International Conference on Materials Science and Technologies – RoMAT 2022 November 24-25, 2022, Bucharest, Romania, lucrarea :The influence of different type materials of grit blasting on the corrosion resistance and surface properties of S235JR carbon steel.
4. Best Oral Presentation International Conference on Innovative Research, Iasi, 16th – 17th of May 2019, lucrarea, Corrosion Behavior of Ni/WC Nano-Structured Composite Layers Synthesized by Electrochemical Method.