Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Marinoiu Teodora Adriana
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E-mail	adriana.marinoiu@icsi.ro
Nationality	Romanian
Date of birth	[redacted]
Gender	Female

Occupational field

Academic (research)

Work experience

Dates Occupation or position held Main activities and responsibilities	**April 2024-present** **Coordinator of Research Group "Hydrogen Research CNHPC"** ▪ Manager and scientific responsible of national projects in the ICSI Energy Department ▪ Management of human resources ▪ Development of innovative Catalyst-Coated Membranes (CCMs)/Catalyst-Coated Electrodes (CCEs) and Membrane Electrode Assemblies (MEAs). ▪ Development of new methods for the preparation of graphene-based materials using low-time-consuming procedures ▪ Development of carbon fiber manufacturing technology by electrospinning ▪ Responsible IOSIN - National Interest Plant- National Center for Hydrogen and Fuel Cells
Dates Occupation or position held Main activities and responsibilities	**March 2024-present** **Responsible IOSIN** ▪ Coordinates the maintenance and operation of the National Interest Plant - National Center for Hydrogen and Fuel Cells ▪ Organizes the CNHPC exploitation activity on the basis of short- and medium-term programs and defines working priorities ▪ Represents IOSIN CNHPC at national and international level, makes decisions regarding the needs and requirements of human resources ▪ Coordinates the priority areas of the CNHPC, organizes working meetings, coordinates the elaboration of specific reports ▪ Coordinates the operations, maintenance and operation of the technological line of material production (Mat-4-H) ▪ Participates in the operation activities of the fuel cell production technology line (Gas-to Power) ▪ Provides adequate technical support for the development of exploitation/research activities in the field specific to the technological line it coordinates ▪ Maintenance, operation and operation of spray coating system (deposition).
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	**March 2018-April 2024** **Coordinator of Research Group "New materials for H_2 energy"** ▪ Manager and scientific responsible of national projects in the ICSI Energy Department ▪ Management of human resources ▪ Developing of new methods for graphene-based materials preparation using a low-time consuming procedures ▪ Developing a carbon fibers manufacturing technology by electrospinning ▪ Deputy Responsible IOSIN **National Research & Development Institute for Cryogenics & Isotopic Technologies**, ICSI ENERGY (former National Centre for Hydrogen and Fuel Cell), Uzinei street, no.4, Ramnicu Valcea, Romania Academic research and development

Dates	**April 2019-present**
Occupation or position held	**Scientific Researcher 1nd degree**
Main activities and responsibilities	▪ Manager and scientific responsible of national project in the ICSI Energy Department ▪ Development of one step synthesis of noble metal nanoparticles supported on reduced graphene oxide using an eco-friendly microwave-assisted process ▪ Development of chemical routes for metal nanoparticles decorated on graphene/ graphene oxide ▪ Development of metal nanoparticles decorated on carbon nanofiber using electrospinning ▪ Coordinates the maintenance, operation and operation of the equipment Automated sorption analyzer AUTOSORB-iQ-C for the realization of specific surface analysis (BET) and porosity determination - BET analysis responsible
Name and address of employer	**National Research & Development Institute for Cryogenics & Isotopic Technologies**, National Centre for Hydrogen and Fuel Cell, Uzinei street, no.4, Ramnicu Valcea, Romania
Type of business or sector	Academic research and development

Dates	**2016-2019**
Occupation or position held	**Scientific Researcher 2nd degree with a permanent position**
Main activities and responsibilities	▪ Manager and scientific responsible of national projects in the National Center for Hydrogen and Fuel Cells ▪ Development of catalysts based on noble and non-noble metals ▪ Syntheses of graphene doped metal/non-metal for use as electrodes in PEM Fuel Cells ▪ Development of new methods for catalyst deposition for proton exchange fuel cells PEM Fuel Cells ▪ Development of new procedures for realization of electrodes for the fuel cell using various spray techniques ▪ Elaboration of a competitive technology for the production of the membrane electrode assemblies (MEAs) ▪ Development new techniques for characterizing fuel cell materials ▪ Characterization of PEM Fuel Cells using Electrochemical Measurements such as polarization curves (I-V), Impedance Spectroscopy (EIS) ▪ Research regarding the energetic technologies: fuel cell development ▪ Coordinates the maintenance, operation and operation of the equipment Automated sorption analyzer AUTOSORB-iQ-C for the realization of specific surface analysis (BET) and porosity determination - BET analysis responsible ▪
Name and address of employer	**National Research & Development Institute for Cryogenics & Isotopic Technologies**, National Centre for Hydrogen and Fuel Cell, Uzinei street, no.4, Ramnicu Valcea, Romania
Type of business or sector	Academic research and development

Dates	**2012 - 2016**
Occupation or position held	**Scientific Researcher 3rd degree with a permanent position**
Main activities and responsibilities	▪ Applied research in the field of proton exchange membrane fuel cells ▪ Synthesis of graphene based materials for use as electrodes in PEMFC ▪ Characterization of total surface area by specific surface area, porosityand particle size distribution ▪ Studies for fuel cell systems for increasing the performance based on parameters optimization ▪ Preparation and characterization of new catalytic materials for the retention of carbon monoxide from the gaseous hydrogen mixture ▪ Methods and technologies for hydrogen separation and purification ▪ Investigations on new methods for hydrogen obtaining and hydrogen storage ▪ Preparation and characterization of new catalytic materials for catalytic reaction between hydrogen and carbon dioxide, with the formation of methane. Research on development and implementation of pilot or industrial-scale technologies
Name and address of employer	**National Research & Development Institute for Cryogenics & Isotopic Technologies**, Uzinei street, no.4, Ramnicu Valcea, Romania
Type of business or sector	Research & Development

Dates	**2006 - 2012**
Occupation or position held	**Scientific Researcher**

Main activities and responsibilities	▪ Scientific research in the field of industry and energy usage ▪ Syntheses of organic and inorganic compounds, experimental studies on catalytic hydrogenation ▪ Development of various technologies for polyether polyols preparation ▪ Catalysts preparation and testing in the hydrogenation of glycerol ▪ Research activities to reduce negative environmental impacts caused by industrial activities
Name and address of employer	**Research Center -OLTCHIM SA**, Uzinei street, no.1, Ramnicu Valcea, Romania
Type of business or sector	Research & Development

Dates	2000-2006
Occupation or position held	**Chemical Engineer**
Main activities and responsibilities	▪ Research activities in the field of reliability and risk assessment for industrial plants (e.g. propenoxyde anc propylene glycol plants, polyols polyethers installations); ▪ Studies regarding the impact of industrial activities on the environment; ▪ Supervision and coordination of investment works in order to enlarge the industrial capacity ▪ Process engineering in industrial plant regarding polyether polyols obtaining ▪ Participation at writing and implementing quality assurance in industrial plant system
Name and address of employer	**Industrial plant OLTCHIM SA**, Uzinei street, no.1, Ramnicu Valcea, Romania
Type of business or sector	**Research & Development**

Education and training

Dates	**2024**
Title of qualification awarded	**Official Training for SonoTek Ultrasonic Coating Systems**
Principal subjects/occupational skills covered	Fabrication of carbon coated membrane (CCM) for PEM FCs and electrolysers by using Ultrasonic coating system *model FlexiCoat*,
Name and type of organisation providing education and training	**Sono-Tek Corporation, Milton, USA**
Level in national or international classification	Level 6 - Second stage of tertiary education

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Dates	**10.04.-19.04.2024**
Title of qualification awarded	**Operational and Technical Training on Micromeritics Tristar II**
Principal subjects/occupational skills covered	Plus 3030 physical adsorbtion analyzer
Name and type of organisation providing education and training	**G&G Instruments Kft, Budapest, Himeshaza u. 12**
Level in national or international classification	Level 6 - Second stage of tertiary education

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Dates	**15-22.05.2015 / 12-25.06.2017**
Title of qualification awarded	**Training in Surface area and pore size analysis**
Principal subjects/occupational skills covered	BET method for determination of Specific surface area, BJH method for analysis of pore size distribution
Name and type of organisation providing education and training	**Quantachrome Instruments Inc. Boynton, USA**
Level in national or international classification	Level 6 - Second stage of tertiary education

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Dates	**11-14.06.2012**
Title of qualification awarded	**Training in ultrasonic spray systems for applying precise, thin film coatings**
Principal subjects/occupational skills covered	Fabrication of carbon coated membrane (CCM) for PEM FCs and electrolysers by using Ultrasonic coating system *model ExactaCoat*
Name and type of organisation providing education and training	**Sono-Tek Corporation**
Level in national or international classification	Level 6 - Second stage of tertiary education

Dates	**2001 – 2009**
Title of qualification awarded	**PhD in Chemical Engineering** Title of doctoral thesis: Catalytic Hydrogenation of Glycerol
Principal subjects/occupational skills covered	Catalysts development, Syntheses of organic and inorganic compounds, experimental studies on catalytic hydrogenation
Name and type of organisation providing education and training	„**Gh. Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection**
Level in national or international classification	Level 6 - Second stage of tertiary education
Dates	**2002 - 2006**
Title of qualification awarded	**Bachelor degree- Public Administration**
Main activities and responsibilities	Learning **Public Administration**
Name and address of employer	**„Al.I. Cuza" University of Iasi, Faculty of Economics and Business Administration**
Type of business or sector	
Dates	**2000 – 2001**
Title of qualification awarded	**Master in Ecological Catalysis**
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	**Gh. Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection**
Level in national or international classification	Level 5 - First stage of tertiary education
Dates	1995 - 2000
Title of qualification awarded	**Bachelor degree**
Principal subjects/occupational skills covered	**Organic Chemical Engineering**
Name and type of organisation providing education and training	**"Gh. Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection**
Level in national or international classification	Level 5 - First stage of tertiary education: ISCED 5A

Personal skills and competences

Mother tongue(s): **Romanian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Independent user	C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences	Friendly, Trustworthy, Hard-working, Communicative, Highly organized, Problem solver, Team player – in the expertise area
Organisational skills and competences	Competent organizer and coordinator, empathic with colleagues, innovative in projects development
Technical skills and competences	Technical skills in the area of fuel cells and electrodes for PEM Fuel Cells: Synthesis of graphene based materials; development of catalysts based on noble and non-noble metals; electrochemical techniques for characterizing fuel cell materials using polarization curve (I-V), electrochemical Measurements Impedance Spectroscopy (EIS); Technical skills in the area of carbon materials preparation: graphene base materials synthesis, characterization of total surface area by specific surface area, porosity, pore size distribution; particle size distribution (DLS);
Other skills and competences	Open-minded, curious and inventive
Driving licence	B category

Annexes	**Annex 1:** List of Published papers indexed by Thomson Reuters Master Journal List (ex-ISI Master Journal List) with impact factor (IF) **Annex 2:** Published papers indexed by Thomson Reuters Master Journal List (ex-ISI Master Journal List) without impact factor (IF) **Annex 3:** List of published books/chapters **Annex 4:** The experience accumulated in research projects **Annex 5:** Patent applications **Annex 6**: International recognition
Member professional organizations	General Secretary of the Romanian Association for Hydrogen Energy Member of the Romanian Chemical Society

Summary main achievements:

Identification data:
BrainMap ID: U-1700-035M-8251
Researcher ID: http://www.researcherid.com/rid/C-8903-2014
SCOPUS author ID: 30767637700 https://www.scopus.com/authid/detail.uri?authorId=30767637700
ORCID: http://orcid.org/0000-0001-5745-8029
H-index: **21** (*Scopus*); **20** (*Web of Science*); **22** (*Google Scholar)*

Date: 22.05.2026 **Signature:** Marinoiu Adriana

ANNEX 1

List of Published papers indexed by Thomson Reuters Master Journal List (ex-ISI Master Journal List) with impact factor (IF):

1. Tiliakos, A., **Marinoiu, A.**, Tudorache, D., & Jaroniec, M. (2025). Editorial on hot topics in surface science:(Nano) catalysis for energy, environmental, and industrial applications (HTSS-NCEEIA). Applied Surface Science Advances, 27, 100742, (IF/2023=7.5, Q1).
2. Iordache, M., Oubraham, A., Bazga, M., Ungureanu, G. E., Borta, S. E., & **Marinoiu, A.** (2025). Assessing the Efficacy of Seawater Batteries Using NASICON Solid Electrolyte. Applied Sciences, 15(7), 3469, (IF/2023=2.5, Q2).
3. **Marinoiu, A.**, Iordache, M., Borta, E. S., & Oubraham, A. (2024). Graphene-Based Nanostructured Cathodes for Polymer Electrolyte Membrane Fuel Cells with Increased Resource. C, 10(4), 105, (IF/2023=3.9, Q2).
4. Iordache, M., Oubraham, A., Borta, S., Ungureanu, G., & **Marinoiu, A.** (2024). Testing the Stability of NASICON Solid Electrolyte in Seawater Batteries. Energies, 17(21), 5241, (IF/2023=3.0, Q3).
5. Marin, M. M., Biru, I. E., Stavarache, C. E., Avramescu, S. M., Vasilievici, G., **Marinoiu, A.,** ... & Verziu, M. N. (2024). Conversion of limonene to limonene diol over activated carbon supported Ti catalyst. Biomass Conversion and Biorefinery, 1-8, (IF/2023=2.5, Q3).
6. Iordache, M., Oubraham, A., Petreanu, I., Sisu, C., Borta, S., Capris, C., ... & **Marinoiu, A.** (2024). NASICON Membrane with High Ionic Conductivity Synthesized by High-Temperature Solid-State Reaction. Materials, 17(4), 823, (IF/2023=3.1, Q1).
7. Oubraham, A., Iordache, M., Marin, E., Sisu, C., Borta, S., Soare, A., ... & **Marinoiu, A**. (2024). Preparation of Copper-Based Catalysts for Obtaining Methanol by the Chemical Impregnation Method. Materials, 17(4), 847, (IF/2023=3.1, Q1).
8. Nicolescu, A., Airinei, A., Georgescu, E., Georgescu, F., Tigoianu, R., Dumitrascu, F., **Adriana T. MARINOIU** & Deleanu, C. (2023). Synthesis and spectroscopic properties of novel indolizines and azaindolizines. Revue Roumaine de Chimie, 68(5), 241-252, (IF/2023=0.4, Q4).
9. Oubraham, A., Ion-Ebrasu, D., Vasut, F., Soare, A., Sorlei, I. S., & **Marinoiu, A.** (2023). Platinum-functionalized graphene oxide: One-pot synthesis and application as an electrocatalyst. Materials, 16(5), 1897, (IF/2023=3.1, Q1).
10. Iordache, M., Oubraham, A., Sorlei, I. S., Lungu, F. A., Capris, C., Popescu, T., & **Marinoiu, A**. (2023). Noble metals functionalized on graphene oxide obtained by different methods—new catalytic materials. Nanomaterials, 13(4), 783, (IF/2023=4.4, Q2).
11. Tiliakos, A., Iordache, M., & **Marinoiu, A.** (2021). Ionic conductivity and dielectric relaxation of NASICON superionic conductors at the near-cryogenic regime. Applied Sciences, 11(18), 8432, (IF/2023=2.5, Q2).
12. Elena Carcadea, Mohammed S. Ismail, Derek Bin Ingham, Laurentiu Patularu, Dorin Schitea, **Adriana Marinoiu**, Daniela Ion-Ebrasu, Dan Mocanu, Mihai Varlam, Effects of geometrical dimensions of flow channels of a large-active-area PEM fuel cell: A CFD study, International Journal of Hydrogen Energy Volume 46, Issue 25, 9 April 2021, Pages 13572-13582, (IF/2023=8.1, Q1).
13. **Adriana Marinoiu**, Elena Carcadea, Ada Sacca, Alessandra Carbone, Claudia Sisu, Andreea Dogaru, Mircea Raceanu, Mihai Varlam, One-step synthesis of graphene supported platinum nanoparticles as electrocatalyst for PEM fuel cells, International Journal of Hydrogen Energy Volume 46, Issue 22, 26 March 2021, Pages 12242-12253, (IF/2023=8.1, Q1).
14. **Marinoiu**, A.; Raceanu, M.; Carcadea, E; Varlam, M. Nitrogen-Doped Graphene Oxide as Efficient Metal-Free Electrocatalyst in PEM Fuel Cells, NANOMATERIALS, 2023, 13(7), 1233. /10.3390/nano13071233, WOS:000969700900001, (IF/2022 = 5.3 Q1).
15. Tiliakos, A; Iordache, M.; Raceanu, M.; **Marinoiu**, **A**., Remediation of activation energy anomalies, scaling distortions, and bandwidth limitations in superionic conductivity modeling of NZSP NaSICON synthesized by an augmented SSR method. Ceramics International **2023**, 49(7), pp: 10588-607, ISSN 0272-8842, 10.1016/j.ceramint.2022.11.246, (IF/2022 = 5.2 Q1).
16. **Marinoiu, A.,** Iordache, M., & Tiliakos, A. 2022. Solid-state synthesis of optimized NASICON Na3Zr2Si2PO12 ceramic membranes. Rev. Roum. Chim, 67(1-2), 59-66,(IF/2023=0.4, Q4).
17. **Marinoiu A.;** Ion-Ebrasu D.; Soare A.; Raceanu M. Iodine-Doped Graphene Oxide: Fast Single-Stage Synthesis and Application as Electrocatalyst. Materials 2022**,** 15(17):6174 (IF/2021 = 3.748 Q1).
18. **Marinoiu A**., Andrulevicius M., Tamuleviciene A., Tamulevicius T., Raceanu M., Varlam M., Synthesis of well dispersed gold nanoparticles on reduced graphene oxide and application in PEM fuel cells, Applied Surface Science , vol. 504, nr 1, pag 144511, ISBN/ISSN 0169-4332, 2020 Factor Impact: 6.182 Q1
19. **Marinoiu A**, Andrulevicius M, Tamuleviciene A, Tamulevicius T, Carcadea E, Raceanu M, High performance catalytic system with enhanced durability in PEM fuel cell, International Journal of Hydrogen Energy, 45 (17), pp. 10409-10422, 2020**,** impact factor: 4,939; Q1
20. **Marinoiu A**, Raceanu M, Carcadea E, Andrulevicius M, Tamuleviciene, A., Tamulevicius, T., Capris C, Varlam M, Efficient method to obtain Platinum–Cobalt supported on graphene oxide and electrocatalyst development, International Journal of Hydrogen Energy, 45 (49), pp. 26226-26237, **2020,** impact factor/ 2019 : 4,939; Q1
21. **Marinoiu, A**., Carcadea E, Sacca A, Carbone, A., Sisu, C., Dogaru, A, Raceanu M,Varlam M, One-step synthesis of graphene supported platinum nanoparticles as electrocatalyst for PEM fuel cells, International Journal of Hydrogen Energy, **2020**, impact factor: 4,939; Q1

22. Humelnicu, A.-C., Samoila, P., Asandulesa, M., Cojocaru C, Bele A, **Marinoiu, AT**, Sacca, A., Harabagiu, V., Chitosan-sulfated titania composite membranes with potential applications in fuel cell: Influence of cross-linker nature, Polymers, 12 (5), art. no. 1125, 2020**,** Impact factor: 3,426; Q1
23. Carcadea, E., Varlam, M., Ismail, M., Ingham, D.B., **Marinoiu, A.**, Raceanu, M., Jianu, C., Patularu, L., Ion-Ebrasu, D., PEM fuel cell performance improvement through numerical optimization of the parameters of the porous layers, International Journal of Hydrogen Energy, 45 (14), pp. 7968-7980., 1879-3487, 2020**,** Impact factor: 4.939 Q1
24. Elena Carcadea, Mohammed S Ismail, Derek Bin Ingham, Laurentiu Patularu, Dorin Schitea, **Adriana Marinoiu**, Daniela Ion-Ebrasu, Dan Mocanu, Mihai Varlam, Effects of geometrical dimensions of flow channels of a large-active-area PEM fuel cell: A CFD study, International Journal of Hydrogen Energy, 2020, Impact factor: 4.939 Q1
25. **Marinoiu, A.,** Raceanu, M., Andrulevicius, M., Tamuleviciene, A., Tamulevicius, T., Nica, S., Bala, D., Varlam, M., Low-cost preparation method of well dispersed gold nanoparticles on reduced graphene oxide and electrocatalytic stability in PEM fuel cell, Arabian Journal of Chemistry, vol 13 (1), pp. 3585-3600, ISSN: 18785352, Factor Impact 4.762, Q2
26. Lazar, O.-A., **Marinoiu, A.,** Raceanu, M., Pantazi, A., Mihai, G., Varlam, M., Enachescu, M., Reduced graphene oxide decorated with dispersed gold nanoparticles: Preparation, characterization and electrochemical evaluation for Oxygen reduction reaction, Energies, 13 (17), art. no. 4307, Impact factor: 2.702, Q3
27. Bizon, N, Raceanu, M, Koudoumas, E, **Marinoiu, A** Karapidakis, E, Carcadea, E, Renewable/Fuel Cell Hybrid Power System Operation Using Two Search Controllers of the Optimal Power Needed on the DC Bus**,** Energies, 13 (22), 2020, Impact factor: 2.702, Q3
28. **Adriana Marinoiu**, Radu Andrei, Irina Vagner, Violeta Niculescu, Felicia Bucura, Marius Constantinescu, Elena Carcadea, One Step Synthesis of Au Nanoparticles Supported on Graphene Oxide Using an Eco-Friendly Microwave-Assisted Process, Materials Science, 26, 3, 249-254, 2020, Impact factor/2019: 0.16 , Q3
29. Andrei, R.D., **Marinoiu, A**., Marin, E., Enache, S., Carcadea, E., Carbon nanofibers production via the electrospinning process, Energies, 13 (11), art. no. 3029, 2020, DOI: 10.3390/ en13113029, Impact factor/2019: 2,702; Q3
30. **Marinoiu A.**, Raceanu M., Carcadea E., Varlam M., Stefanescu I., Iodinated carbon materials for oxygen reduction reaction in proton exchange membrane fuel cell. Scalable synthesis and electrochemical performances, Arab J Chem 2019;12:868–80, Factor Impact 4.762, Q2
31. Carcadea E., Varlam M., **Marinoiu A**., Raceanu M., Ismail MS., Ingham DB., Influence of catalyst structure on PEM fuel cell performance – A numerical investigation, Int J Hydrogen Energy 2019. Impact factor: 4.939, Q1
32. Vasut Felicia, Oubraham Anisoara, Soare Amalia, **Marinoiu Adriana**, Ion-Ebrasu Daniela, Dragan Mirela, Platinum supported on graphene - PTFE as catalysts for isotopic exchange in a detritiation plant, FUSION ENGINEERING AND DESIGN, Vol. 146 (A) SI, pp 149-152, Q1
33. **Marinoiu, Adriana**; Cobzaru, Claudia; Carcadea, Elena; Raceanu, Mircea; Schitea, Dorin; Varlam, Mihai; Stefanescu, Ioan, New catalysts used in the hydrogenolysis reaction of glycerol, Environmental Engineering & Management Journal (EEMJ) . Jan2019, Vol. 18 Issue 1, pp 195-202. 8p, IF 0.9, Q4
34. .Cobzaru C., **Marinoiu A**., Apostolescu GA, Tataru-Farmus RE, Cernatescu C, Mathematical modeling for kinetics of Fe^{3+} exchange ion pretreated analcime, Revue Roumaine de Chimie, May 2019, Vol. 64 Issue 5, pp 403-407, Q4
35. **Adriana Marinoiu**, Mircea Raceanu,Elena Carcadea, MihaiVarlam, Iodine-doped graphene – Catalyst layer in PEM fuel cells**,** *Applied Surface Science*, 456, **2018**, 238-245, (IF=4.439), Q1
36. **Adriana Marinoiu**, Mihai Varlam, Elena Carcadea, Mircea Raceanu,Amalia Soare, Ioan Stefanescu, A Class of High Performance Electrocatalysts for Oxygen Reduction Reaction of Fuel Cells, using Iodine Doped Graphene, *Materials Today: Proceedings* 5, **2018,** 15915–15922
37. **Adriana Marinoiu**, Mircea Raceanu, Mindaugas Andrulevicius, Asta Tamuleviciene, Tomas Tamulevicius, Simona Nica, Daniela Bala, Mihai Varlam, Low-cost preparation method of well dispersed gold nanoparticles on reduced graphene oxide and electrocatalytic stability in PEM Fuel Cell, Accepted, Arabian Journal of Chemistry, ISSN 1878-5352 ; DOI information: 10.1016/j.arabjc.**2018**.12.009, Q2
38. Carcadea E, Varlam M, Ingham DB, Ismail MS, Patularu L, **Marinoiu A** , Schitea D, T he effects of cathode flow channel size and operating conditions on PEM fuel performance: A CFD modelling study and experimental demonstration, INTERNATIONAL JOURNAL OF ENERGY RESEARCH, **2018**, Volume 42, Issue: 8, 2789-2804, DOI: 10.1002/er.4068 (IF=3.009, Q1)
39. Elena Carcadea, Mihai Varlam, **Adriana Marinoiu**, Mircea Raceanu, M. S. Ismail, D.B. Ingham, Influence of catalyst structure on PEM fuel cell performance - A numerical investigation, International Journal of Hydrogen Energy, **2018**, doi: 10.1016/j.ijhydene. 2018.12.155, (IF 4.229, Q1)
40. C. Cobzaru, **A. Marinoiu**, C. Cernatescu, A.C.Puitel, A. Soare, Experimental Studies for the Cinnamaldehyde Adsorption on Dealuminated Clinoptilolite Using as Carrier, REV.CHIM.(Bucharest), 69, No. 3, **2018** (IF=1.412), Q4
41. **Marinoiu A**, Raceanu M, Carcadea E, Varlam M, Stefanescu I. Low cost iodine intercalated graphene for fuel cells electrodes. *Appl Surf Sci* **2017**; 424:93-100 doi:10.1016/j.apsusc.**2017**.01.295. (IF=4.439), Q1
42. **Marinoiu A**, Raceanu M, Carcadea E, Varlam M, Balan D, Ion-Ebrasu D, Stefanescu I, Enachescu M, Iodine-Doped Graphene for Enhanced Electrocatalytic Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cell Applications. *J* Electrochem Energy Convers Storage 2017;14:31001. doi:10.1115/1.4036684. (IF=1.429)
43. **Marinoiu A,** Gatto I, Raceanu M, Varlam M, Moise C, Pantazi A, Jianu C, Stefanescu I, Low cost iodine doped graphene for fuel cell electrodes. Int J Hydrogen Energy 2017. doi:10.1016/j.ijhydene.2017.07.036. (IF=4.229, Q1)

44. **Marinoiu A**, Raceanu M, Carcadea E, Varlam M, Soare A, Stefanescu I. Doped Graphene as Non-Metallic Catalyst for Fuel Cells. Mater Sci 2017;23:108–13. doi:10.5755/j01.ms.23.2.16216. (IF=0.393)
45. Rahul Krishna, Diana M. Fernandes, **Adriana Marinoiu**, Joao Ventura, Cristina Freire, Elby Titus, Facile synthesis of well dispersed Pd nanoparticles on reduced graphene oxide for electrocatalytic oxidation of formic acid, Int J Hydrogen Energy, **2017**, 42 (37): 23639-23646 (IF=4.229, Q1)
46. Irina Petreanu, **Adriana Marinoiu**, Claudia Sisu, Mihai Varlam, Radu Fierascu, Paul Stanescu, Mircea Teodorescu, Synthesis and testing of a composite membrane based on sulfonated polyphenylene oxide and silica compounds as proton exchange membrane for PEM fuel cells, Materials Research Bulletin 2017 96:136–142, (IF=2.873, Q2)
47. **Adriana Marinoiu**, Elena Carcadea, Claudia Cobzaru, Corina Cernatescu, Numerical Approach for Catalytic Conversion of CO_2 to Methane over Nickel Base Catalysts**,** *REV. CHIM.* (Bucharest), 68, No. 1, 2017, pp. 128-133, ISSN: 0034-7752, (IF=1.412), Q4
48. **Marinoiu A**, Raceanu M, Carcadea E, Varlam M, Stefanescu I. Iodinated carbon materials for oxygen reduction reaction in proton exchange membrane fuel cell. Scalable synthesis and electrochemical performances. Arab J Chem 2016. doi:10.1016/j.arabjc.2016.12.002. (IF=3.153), Q2
49. **Marinoiu A**, Raceanu M, Carcadea E, Varlam M, Stefanescu I. Iodinated carbon materials for oxygen reduction reaction in proton exchange membrane fuel cell. Scalable synthesis and electrochemical performances. Arab J Chem 2016. doi:10.1016/j.arabjc.2016.12.002. (IF=3.153), Q2
50. **A. Marinoiu,** ·M. Raceanu, E. Carcadea, D. Marinescu, C. Teodorescu, A. Mellichio, M. Varlam, I. Stefanescu, Convenient graphene based materials as potential candidates for low cost fuel cell catalysts, *Reac* Kinet Mech Cat, 2016, 118:281–296, DOI 10.1007/s11144-016-0999-4, factor impact: 1,170, Q4
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5. **Adriana Marinoiu**, Elena Carcadea, Mircea Raceanu and Mihai Varlam, **Chapter 5**: Iodine Doped Graphene for Enhanced Electrocatalytic Oxygen Reduction Reaction in PEM Fuel Cell Applications, in **Book**: Advances In Hydrogen Generation Technologies; Published: August 22nd 2018 DOI: 10.5772/intechopen.76495, ISBN: 978-1-78923-535-7
6. **Adriana Marinoiu**, Mircea Raceanu, Elena Carcadea, Aida Pantazi, Raluca Mesterca, Oana Tutunaru, Simona Nica, Daniela Bala, Mihai Varlam, Marius Enachescu, **Chapter title:** Noble metal dispersed reduced graphene oxide and its application in PEM Fuel Cells**, Book title:** Electrocatalysts for Fuel Cells and Hydrogen Evolution: Theory to Design, **,** ISBN: 978-953-51-6257-5.

Annex 4:
The experience accumulated in research projects

Relevant Research Projects

1. "The Romanian HUB for Hydrogen and New Energy Technologies - **Ro-HydroHub**", financing contract G 2024-81692/390006 din 13.11.2024, cod SMIS: 304724, *management team member*
2. **PN 23 15 01 03,** "Optimization and validation of nanostructured catalytic systems and innovative component manufacturing technology for membrane-electrode assemblies with increased durability, with applications in PEM fuel cells", 2023-2026, *project manager*
3. **PN-III-P2-2.1-PED-2021-0840,** "Scalable advanced methods for the synthesis in a single stage of graphene materials decorated with catalysts and the development of integrated electrodes for fuel cells**",** 2022-2023, *project manager*
4. **PN 23 15 01 04**, "Tehnologii chimice şi electrochimice pentru conversia dioxidului de carbon în compuşi cu rol energetic – CO2Out", **2023-2026,** *project participation*
5. **PN-III-P2-2.1-PED-2019-1894**, "Graphene-based electrodes manufactured exclusively by laser techniques for PEM fuel cells produced by laser pyrolysis of a polymer matrix with integrated catalytic organometallic complexes", implementation period**:** 12.11.2020 - 11.11.2022, *project manager*
6. **PN-III-P2-2.1-PED-2019-2079**, denumire proiect "Associating the quantum selection process with the synthesis of metal-organic networks (MOF) to develop a new isotopic separation technology", implementation period**:** 23.10 - 22.10.2022, *project participation*
7. **Bilateral Agreement CNR/RA Joint Research Projects 2020-2023,** *partner responsible*
8. **Project PN 19 12 02 01**, Innovative PEM fuel cell electrodes with improved performance and increased durability based on functionalised graphene materials, 2019, *proiect manager*
9. **Project PN 18 12 01 02,** Nanostructured materials based on graphene - metal nanoparticles for ORR electrodes applications in the PEMFC field**,** 2018, *proiect manager*
10. **Project PN 16 36 01 02,** Unconventional electrodes based on graphene materials with applications in PEM type fuel cells, 2016-2017, *proiect manager*
11. **Project PN 09 19 01 11** Prospects and technical-economic opportunities for CO_2 recycling to methane using renewable energy**,**, Ctr. 19N/2009- 2014, *proiect manager*

12. **Project PN 09 19 01 16** The use of new technologies for the synthesis of nano-composite graphene base materials with catalytic and electrocatalytic properties for PEMFC applications- 2015**,** *proiect manager*
13. **Proiect PNCDI II, Contract nr. 284/2014,** Development of a portable power generator - type feeder, based on hydrogen electrochemistry, designed to maintain energy support of combat equipment in the tactical field, 2014-2016**,** *project participation*
14. **Project PN 09 19 01 09** "Theoretical and experimental investigations regarding the systems for CO retention at low temperature for PEM fuel cell and their applications"- 2014, *project participation*
15. **Project PN 09 19 01 08** Studies on the development of thermocatalytic processes and types of catalysts used for applications in the field of renewable energy production, Ctr. 19N/2009, 2013 *project participation.*

Annex 5: Patent and patent requests

1. **Marinoiu Adriana**, Carcaea Elena, Marin Elena, Capris Ioan Catalin, Varlam Mihai, Process of obtaining carbon fibers decorated with Pd nanoparticles, with application in fuel cells, Patent No. 138104/30.01.2026.
2. Marin Elena, **Marinoiu Teodora-Adriana**, Oubraham Anisoara, Borta Elena Simona, Niculescu Violeta-Carolina, Carcadea Elena, Carbonaceous porous materials with iron nanoparticles deposition and the process of obtaining them, Patent No. 138193/30.01.2026.
3. Iordache Mihaela, Spiridon Stefan Ionut, **Marinoiu Adriana**, Modular battery assembly with ceramic membranes for electrochemical conversion of CO_2, A/00547/21.11.2025.
4. **A. Marinoiu**, M. Iordache, E. Marin, C.-I. Capris, Process of obtaining graphical materials functionalized with nickel, CBI nr. A/00292/10.07.2025.
5. A. Oubraham, E. Marin, A. Tiliakos, F. Vasut, **T. A. Marinoiu**, Graphene materials in the form of platinum-functioning graphene oxide nanocomposites in the microwave field and the process of obtaining them, patent no. 136028/30.05.2025
6. E. Marin,T. **A. Marinoiu**, E.S. Borța, E. Carcadea, Porous carbonic materials in the form of nickel nanofibres and their production process, Patent No. 137281/28.03.2025
7. M. Iordache, S.I. Sorlei, A. M.Chitu, A.Tiliakos, **T. A. Marinoiu**, NASICON-type ceramic membrane battery and its manufacturing process, Patent No. 137482/06.11.2024
8. A. Oubraham, E. Marin, A. Tiliakos, F. Vasut, **T. A. Marinoiu**, Functional graphical materials with platinum and process non-polluting of their obtaining, Patent No.137597/19.08.2024.
9. **T. A. Marinoiu**, M. Raceanu, E. Carcadea, Ternary catalyst of graphene type functionalized with platinum cobalt-cerium and the process of obtaining it, Patent No. 137820/19.08.2024.
10. A. Marinoiu, E. Carcadea, E. Marin, M. Varlam, Functionalized graphene materials with platinum - nitrogen and the process of obtaining them, Patent No. 137597/19.08.2024.
11. **A. Marinoiu,** I. Vagner, S. Baltoiu, Autonomous system of production and supply of hydrogen for power sources in open field, CBI A/00709/18.11.2024
12. M. Iordache, A. Oubraham, S. E. Borta, E. Marin, I. C. Capris, **T.A. Marinoiu**, Carbon fibers decorated with gold and the process of obtaining, CBI nr..A/00407/10.07.2024
13. **T. A. Marinoiu,** E. Marin, M. Raceanu, S. Baltoiu, M. Varlam, Process of obtaining functionalized graphs with platinum and iron, No. A/00247/14.05.2024
14. **T. A. Marinoiu,** M. Iordache, A. Oubraham, S. E. Borta, I. M. Vagner, Elena Carcadea, Carbon fibers decorated with cobalt, by electrofiling and the process of obtaining them No. A/00248/03.07.2024.
15. **T. A. Marinoiu**, E. Carcadea, I. C. Capris, M.Raceanu, M.Varlam, Process of obtaining functionalized graphene materials with iodine in the microwave field, Patent No. 134964/28.02.2023
16. M, Raceanu , **T. A. Marinoiu**, E. Carcadea, M.Varlam, Method of controlling the power of a fuel cell system of a hybrid electric vehicle, Patent No. 135821/29.11.2023
17. **A. Marinoiu,** E. Carcadea, E. Marin, I. C. Capris, M. Varlam, Process of obtaining functionalized iron graphene materials, No. A/00805/06.12.2023
18. **A. Marinoiu**, M. Răceanu, I, C. Capriş, E, Carcadea, S. F. Ion, M, Varlam, The process of obtaining a gold-doped graphene nanocomposite, Patent No. 133529/28.01.2022
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21. E.Marin, **T.A. Marinoiu,** A., Oubraham S. E. Borţa, V.C. Niculescu, E. Carcadea, Process of obtaining carbon fibers decorated with iron nanoparticles, No. A/00796/06.12.2022
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23. **A. T.Marinoiu**, E.Carcadea, E. C. Şişu, R.D. Andrei, M. Răceanu, C. I. Capriş, M.Varlam, Carbonic materials with platinum nanoparticles deposition and the process of obtaining them, Patent No.134488/29.10.2021

24. **A. Marinoiu**, E. Carcadea, M. Raceanu, Capris Catalin, Varlam Mihai, Process of obtaining graphene materials doped with gold nanoparticles, No. A/00536/26.08.2020
25. **A. Marinoiu**, S. F. Ion, E. Carcadea, M. Răceanu, I. C. Capriş, M. Varlam, Functional graphene materials with azulene obtained in the microwave field, No. A/00508/26.08.2021
26. M. Răceanu, **A. Marinoiu,** E. Carcadea, M.Varlam, Control method and starting sequence of a hybrid electric vehicle with two fuel cells to increase energy efficiency, No. A/00762/09.12.2021
27. **A. Marinoiu,** E. Carcadea, M. Răceanu, C. Capriş, M. Varlam, Graphic materials doped with cedium oxide and the process of obtaining them, Nr. A/00763/09.12.2021
28. **A.Marinoiu,** M. Iordache, A. Tiliakos, Preparation process NASICON ceramic membranes with high ionic conductivity, No. A/00764/09.12.2021
29. **A.**, **Marinoiu,** M. Raceanu, S. Borta, D. Schitea, E. Carcadea, M.Varlam, Process of obtaining the carbon fibre gas diffusion layer for fuel cells, No. A/00569/11.09.2020
30. **T. A. Marinoiu**, Carcadea Elena, Capris Ioan Catalin, Raceanu Mircea, Varlam Mihai, Preparation process functionalized graphene materials with iodine in the microwave field, No. A/00804/03.12.2020
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32. Elena Caradea, **A. Marinoiu**, A. Chitu, J. Arhip, M. Varlam, Method and system of hydrogen generation by hydrolysis of sodium borohydride, Patent No. 132339/30.07.2020
33. A. **Marinoiu** Carcadea E, Şişu C, Andrei R, Raceanu M, Capriş C, Varlam M, Process of obtaining nanocomposites - carbon fibers decorated with platinum nanoparticles by electrospinning, No. A/00856/04.12.2019
32. **A. Marinoiu**, Carcadea E., Raceanu M., Capriş C., Varlam M., Preparation process nitrogen-doped graphene materials in the microwave field, No. A/00855/04.12.2019
33. **A. Marinoiu,** Carcadea Elena, Raceanu Mircea, Patularu Laurentiu, Varlam Mihai, Grafene doped with iodine and the process of obtaining them, patent no. 132950/28.06.2019
34. L. Patularu, D. Schitea, M. Varlam, I. Stefanescu, **A. Marinoiu,** Process for fabrication of bipolar plates with liquid cooling system included for PEM fuel cell assemblies,Patent No 129408, 30/03/2018
35. **A. Marinoiu**, M. Raceanu, C. Capris, E. Carcadea, S.F. Ion, M. Varlam, Process for obtaining a nanoparticulate material based on graphene with metallic nanoparticles, Patent request no. A/01134/18.12.2017
36. **A. Marinoiu**, E. Carcadea, M. Raceanu, L. Patularu, M. Varlam, Iodine-doped graphene and process for their preparation, Patent request No. A/01133/18.12.2017.

Annex 6: International recognition

1. Diploma is awarded gold metal pentru inventia "Preparation process for producing nitrogen-doped graphene materials in microwave field", autori: **Teodora Adriana Marinoiu**, Elena Carcadea, Mircea Răceanu, Ioan-Catalin Capriş, Mihai Varlam TECHNOLOGY FORUM OLTENIA TECHFEST, Panel 1, INOVAREA ȘI TRANSFERUL TEHNOLOGIC ÎN ROMÂNIA: direcții strategice naționale și implementare la nivel regional, național și international, 06.11.-07.11.2025, Tg. Jiu.
2. Diploma is awarded gold metal pentru inventia "Process for preparing a nanocomposite material based on gold-doped graphene", autori: **Teodora Adriana Marinoiu**, Mircea Răceanu, , Ioan-Catalin Capriş, Elena Carcadea, Simona Filofteia Ion, Mihai Varlam TECHNOLOGY FORUM OLTENIA TECHFEST, Panel 1, INOVAREA ȘI TRANSFERUL TEHNOLOGIC ÎN ROMÂNIA: direcții strategice naționale și implementare la nivel regional, național și international, 06.11.-07.11.2025, Tg. Jiu.
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4. Certificat de Participare, Diploma si Medalia de Aur pentru inventia: "Process of obtaining carbon fibers decorated with Pd nanoparticles with application in fuel cells", autori: **Marinoiu Adriana**, Raceanu Mircea, Iordache Mihaela, Borta Simona, Oubraham Anisoara, Carcade Elena, The 17'th Edition of EUROINVENT – European Exhibition of Creativity and Innovation, 08-10.05.2025, Iasi
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7. Diploma de Onoare si Medalia de Aur pentru lucrarea "Ternary catalyst of graphene materials functionalized with platinum cobalt cerium and process for obtaining them", autori: **Marinoiu Adriana**, Carcadea Elena, Raceanu Mircea, la Salonul International de inventica INVENTICA2025, 25-27.06.2025, Iasi, Romania
8. Diploma de Excelenta si Medalia de Argint pentru lucrarea "Process for obtaining graphene functionalized with platinum and iron", autori: **Adriana Marinoiu**, Elena Marin, Mircea Racenu, Sebastian Baltoiu, Mihai Varlam, la Salonul International de inventica INVENTICA2025, 25-27.06.2025, Iasi, Romania.

9. Diploma si Premiul Special din partea Forumului Inventatorilor Romani pentru doamna dr. **Adriana Marinoiu**, in semn de apreciere pentru rezultatele obtinute in activitatea de cercetare si inovare, care contribuie in mod remarcabil la progresul stiintei si tehnologiei, la Salonul International de inventica INVENTICA2025, 25-27.06.2025, Iasi, Romania.
10. Diploma si Premiul Special din partea Corneliu Group pentru doamna dr. **Adriana Marinoiu**, pentru buna contributie stiintifica in cadrul Salonului International de Inventica INVENTICA 2025, la Salonul International de inventica INVENTICA2025, 25-27.06.2025, Iasi, Romania.
11. Certificat de Excelenta pentru doamna dr. **Adriana Marinoiu** pentru contributia in lumea inovarii., acordat din partea Corneliu Group, la Salonul International de inventica INVENTICA2025, 25-27.06.2025, Iasi, Romania.
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16. Diplomă şi Medalie de Aur pentru invenţia Nanofibre de carbon decorate cu particule de nichel obţinute prin electrofilare (CBI nr. A/00695/31.10.2022), autori: Marin Elena, **Marinoiu Teodora Adriana**, Borta Elena Simona, Carcadea Elena, obţinută la Salonul Internaţional de inventică EUROINVENT 2025, 08-10.05.2025, Iaşi, Romania
17. Diplomă şi Medalie de Argint pentru invenţia Fibre de carbon decorate cu aur şi procedeu de obţinere (CBI nr. A/00407/10.07.2024), autori: Iordache Mihaela, Oubraham Anisoara, Borta Simona Elena, Marin Elena, Capris Ioan-Catalin, **Marinoiu Teodora-Adriana**, obţinută la Salonul Internaţional de inventică EUROINVENT 2025, 08-10.05.2025, Iaşi, Romania
18. Diplomă şi Medalie de Argint pentru invenţia Procedeu de obtinere materiale grafenice funcţionalizate cu fier (CBI nr. A/00805/06.12.2023), autori: **Marinoiu Adriana**, Carcadea Elena, Marin Elena, Capris Ioan Catalin, Varlam Mihai, obţinută la Salonul Internaţional de inventică EUROINVENT 2025, 08-10.05.2025, Iaşi, Romania
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20. Diplomă de Onoare şi Medalie de Aur pentru: – "Process for preparing graphene materials functionalized with iodine in the microwave field", autori: **Marinoiu Teodora Adriana**, Carcadea Elena, Capriş Ioan-Cătălin, Răceanu Mircea, Varlam Mihai, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România
21. Diplomă de Onoare şi Medalie de Aur pentru: Carbon nanofibers decorated with nivkel particles obtained by electrospinning/Nanofibre de carbon decorate cu particule de nichel obtinute prin electrofilare, autori: Marin Elena, **Marinoiu Teodora Adriana**, Borţa Elena Simona, Carcadea Elena, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România
22. Diplomă de Onoare şi Medalie de Aur pentru "Graphene materials functionalized with platinum and a non-polluting process for obtaining them", autori: Oubraham Anisoara, Marin Elena, Tiliakos Athanasios, Văsuţ Felicia, **Marinoiu Teodora Adriana**, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România
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25. Premiul de Excelenţă şi Medalie de Aur, acordat de către ICECHIM Bucureşti pentru invenţia "Process for preparing graphene materials functionalized with iodine in the microwave field", autori: **Marinoiu Teodora Adriana**, Caraceda Elena, Capriş Ioan-Cătălin, Răceanu Mircea, Varlam Mihai, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România
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27. Certificat de Excelenţă acordat de către Corneliu Group Association următoarelor persoane: **Marinoiu Teodora Adriana**, Carcadea Elena, Capriş Ioan-Cătălin, Răceanu Mircea şi Varlam Mihai, cu recunoştinţă şi consideraţie pentru contribuţii în lumea inovaţiei, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România
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30. Certificat de Excelenţă acordat de către Healthy Vibe Holistic Treatment pentru: "Process for preparing graphene materials functionalized with iodine in the microwave field", autori: **Marinoiu Teodora Adriana**, Caraea Elena, Capriş Ioan-Cătălin, Răceanu Mircea, Varlam Mihai, Salonul Internaţional de Inventică INVENTICA 2024, 3-5 iulie 2024, Iaşi, România

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37. Medalie de argint şi Diplomă de Excelenţă pentru: Control Method and Start-up Seqwuence of a Two-Fue Cell Htbrid Electric Vehicle to Increase Eneregy Efficiency, autori: Răceanu Mircea, **Marinoiu Teodora Adriana**, Carcadea Elena, Varlam Mihai, A 27-a ediție a Salonului Internațional de Invenții, INVENTICA 2023, 21-23.06.2023, Iasi, Romania
38. Medalia de argint şi Diplomă pentru: "Process for obtaining the gas diffusion layer, based on carbon fibers, for fuel cells*",* autori: **Marinoiu Adriana**, Raceanu Mircea, Borta Simona, Schitea Dorin, Carcadea Elena, Varlam Mihai, European Exhibition of Creativity and Innovation - Euroinvent 2023, 13.05.2023, Iaşi, Romania
39. Medalia de bronz şi Diplomă pentru: "Control Method and Start-up Sequence of a Two-Fuel Cell Hybrid Electric Vehicle to Increase Energy Efficiency", autori: Raceanu Mircea, **Marinoiu Teodora Adriana**, Carcadea Elena, Varlam Mihai, European Exhibition of Creativity and Innovation - Euroinvent 2023, 11-13.05.2023, Iaşi, Romania
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