Iolanda-Veronica Ganea

PUBLICATIONS

2025

Gadolinium doped ZnS particles as electrode material for supercapacitor application

Journal of Industrial and Engineering Chemistry, In press.

Authors: I. Nesterovschi, A.U. Ammar, A. Bunge, A. Popa, M. Stefan, S. Macavei, I.-V. Ganea, M. Senila, E. Erdem, A.M. Rostas, D. Toloman

2025

Impact of nickel substitution on supercapacitor and photocatalytic performances of cobalt-ferrites nanoparticles

Ceramics International, 52(13), pp. 17728-17743.

Authors: D. Toloman, M. Stefan, C. Himcinschi, I.-V. Ganea, Lu. Barbu, A. Rostas, A. Gungor, E. Erdem, A. Popa

2025

Impact of Long-Term Mercury Contamination on the Rhizosphere Microbiota of Lotus tenuis: A Pathway to Resilience via Interkingdom Facilitation

bioRxiv.04.07.647525. Preprint.

Authors: E.D. Tiodar, C.L. Văcar, M.C. Grimm, I.-V. Ganea, Z.R. Balázs, A.M. Abrudan, C. Timár, I. Tanțău, M. Banciu, R. Angel, D. Podar

2025

Modification in the Composition of Lactuca sativa L. Plants Exposed to Abiotic Stress Induced by Commonly Used Antibiotics

Plants, 14(6), pp. 842.

Authors: I. Lung, M.-L. Soran, A.N. Sârb, A. Stegarescu, A.C. Moț, I.-V. Ganea, D.-M. Gligor, O. Opriș

2024

Synthetic Aggregates and Bituminous Materials Based on Industrial Waste

Authors: A. Nan, C. Dima, M. Ghita, I.-V. Ganea, T. Radu, A. Bunge

Materials, 17(23), 6002.

2024

Turning waste into value: Developing new adsorbent from construction and banana residues for dyes removal from aqueous solutions

EMERGEMAT Proceedings, 30-31 October 2024, Bucharest, Romania, pp.132.

Authors: I.-V. Ganea, A. Nan, C. Baciu

2024

Eco-Innovative Magnetic Nanostructures: Pioneering Solutions for Mining Wastewater Challenges

Proceedings International Electronic Conference on Water Sciences, 14 October 2024, Online

Authors: I.-V. Ganea, A. Nan, C. Baciu

2024

Manganese-doped Zinc Oxide recycled from spent alkaline batteries for photocatalysis and supercapacitor applications

Authors: M. Stefan, B. Kocabas, A. Güngör, D. Toloman, A. M. Rostas, R. C. Suciu, S. Macavei, I.-V. Ganea, I. Perhaita, S. Tripon, C. Leostean, E. Erdem, A. Popa

Journal of Energy Storage, 99 (B), 113419

2024

Mechanical behaviour of industrial waste modified bituminous mastic

Romanian Journal of Materials/Revista Romana de Materiale, 54(2), pp. 125-130

Authors: T. Radu, A. Nan, I.-V. Ganea, A. Bunge, C. Dima, M. Ghita

2023

Combining Contamination Indices and Multivariate Statistical Analysis for Metal Pollution Evaluation during the Last Century in Lacustrine Sediments of Lacu Sărat Lake, Romania

Authors: I.-V. Ganea, R. Balc, R.-C. Begy, I. Tantau, D. M. Gligor

International Journal of Environmental Research and Public Health – IJERPH, 2023, 20(2), 1342

2022

Development of a New Eco-Friendly Copolymer Based on Chitosan for Enhanced Removal of Pb and Cd from Water

Authors: I.-V. Ganea, A. Nan, C. Roba, I. Neamtiu, E. Gurzau, R. Turcu, X. Filip, C. Baciu

Polymers, 2022, 14(18), 3735

2022

Characterization of a Neoteric Clay-Based Composite for the Removal of Heavy Metals from Mining Water

Authors: I.-V. Ganea, A. Nan, C. Roba, C. Baciu

Analytical Letters, 2022, 56, 257-271

2022

Responsiveness assessment of cell cultures exposed to poly(tartaric acid) and its corresponding magnetic nanostructures

Authors: I.-V. Ganea, A. Nan, A. Ciorita, R. Turcu, C. Baciu

Journal of Molecular Structure 2021, 1248, 131459

2021

Aminopropylimidazole as an Advantageous Coating in the Synthesis of Functionalized Magnetite Nanoparticles

Authors: A. Nan, I.-V. Ganea, S. Macavei, R. Turcu

Nanomaterials 2021, 11(12), 3276

2021

Neoteric material based on renewable resources for metal contaminated waters

Authors: I.-V. Ganea, A. Nan, I. Neamtiu, C. Baciu

Environmental Sciences Proceedings 9(1) (2021), 3

2021

Wasted Biomaterials from Crustaceans as a Compliant Natural Product Regarding Microbiological, Antibacterial Properties and Heavy Metal Content for Reuse in Blue Bioeconomy: A Preliminary Study

Authors: F. Nekvapil. I.-V. Ganea, A. Ciorita, R. Hirian, L. Ogresta, B. Glamuzina, C. Roba, S. Cinta Pinzaru

Materials 2021, 14(16), 4558

2021

A New Biofertilizer Formulation with Enriched Nutrients Content from Wasted Algal Biomass Extracts Incorporated in Biogenic Powders

Authors: F. Nekvapil. I.-V. Ganea, A. Ciorita, R. Hirian, S. Tomsic, I. M. Martonos, S. Cinta Pinzaru

Sustainability 2021, 13(16), 8777

2021

Effective Removal of Crystal Violet Dye Using Neoteric Magnetic Nanostructures Based on Functionalized Poly(Benzofuran-co-Arylacetic Acid): Investigation of the Adsorption Behaviour and Reusability

Authors: I.-V. Ganea, A. Nan, C. Baciu, R. Turcu

Nanomaterials 11(3) (2021), 679

2021

Study of metal ion removal from aqueous systems using magnetic nanostructures based on functionalized poly(benzofuran-co-arylacetic acid)

Authors: I.-V. Ganea, A. Nan, R. Turcu, C. Roba, I. Neamtiu, C. Baciu

Analytical Letters, 54(1-2), pp. 184-203

2019

Physico-chemical properties of a New Magnetic Nanostructure Based on Poly(benzofurane-co-arylacetic acid)

Authors: A. Nan, I.-V. Ganea, R. Turcu

Analytical Letters, 52(1), pp. 27-36

2019

Application of new synthesized materials in the water decontamination from Rosia Montana mining area (Romania)

Authors: I.-V. Ganea, A. Nan, I. Neamtiu, C. Roba, R. Turcu, C. Baciu

SIMI Proceedings, 26-27 September 2019, Bucharest, Romania, pp. 61-62

2018

New promising hybrid material based on montmorillonite for metal ions removal from contaminated water

Authors: I.-V. Ganea, A. Nan, C. Roba, R. Turcu

SIMI Proceedings, 20-21 September 2018, Bucharest, Romania, pp. 34-35

2017

Assessment of Environmental Quality in Lacu Sărat Area (Brăila County, Romania)

Authors: I.-V. Ganea, C. Roba, D. Gligor, A. Farkas, R. Bălc, M. Moldovan

Carpathian Journal of Earth and Environmental Sciences, 12 (2), pp. 377-387

NETWORKS AND MEMBERSHIPS

07/2022 – CURRENT Cluj-Napoca (Romania)

Member in the Administrative Council of "Advanced Technologies for Life and Agrosciences" Association

The association (founded based on a MoU with Louisiana State University - USA) aims to implement and promote sustainable use of innovative nanotechnologies for the community.

11/2019 – CURRENT Cluj-Napoca (Romania) - Baton Rouge (LA, USA)

Facilitator - Collaboration between Babes-Bolyai University (Cluj-Napoca, Romania) - Louisiana State University (Baton Rouge, USA) - The Louisiana State University Agricultural Center (Baton Rouge, USA)

11/2019 – CURRENT

Facilitator - Memorandum of Understanding (MoU)

The Memorandum of Understanding (MoU) was established between Louisiana State University (Baton Rouge, USA) - The Louisiana State University Agricultural Center (Baton Rouge, USA) - "Iuliu Hatieganu" University of Medicine and Pharmacy (Cluj-Napoca, Romania) - University of Agricultural Sciences and Veterinary Medicine (Cluj-Napoca, Romania) - Babes-Bolyai University (Cluj-Napoca, Romania) - Center for Environment and Health (Cluj-Napoca, Romania) - National Institute for Research and Development of Isotopic and Molecular Technologies – INCDTIM (Cluj-Napoca, Romania). The MoU was initiated after **I.-V. Ganea** finished her research internship at Louisiana State University (USA) in 2019.

CONFERENCES AND SEMINARS

11/2025 Cluj-Napoca (Romania)

Participation at The „Environment and Progress" Symposium

Presentation: "Evaluating the Metal Adsorption Performance of a Composite Derived from Banana Peel and Stone Dust" (P.-S. Mureșeanu, I.-V. Ganea, R. Bălc, A. Nan)

09/2025 Cluj-Napoca (Romania)

Participation at The 15th International Conference on Processes in Isotopes and Molecules (PIM 2025)

Poster: "Green chemistry in action: removing dyes using waste-based materials" (I.-V. Ganea, A. Nan, M. Dan, A. Bunge).

09/2025 Cluj-Napoca (Romania)

Participation at The 15th International Conference on Processes in Isotopes and Molecules (PIM 2025)

Poster: "Sustainable waste-based materials for mining water treatment" (P.-S. Mureșeanu, I.-V. Ganea, R. Bălc, A. Nan).

09/2025 Cluj-Napoca (Romania)

Participation at The XXIVth edition of International Conference "Life Sciences for Sustainable Development" 2025

Poster: "From waste to resource: sustainable materials for mining water treatment" (P.-S. Mureșeanu, I.-V. Ganea, R. Bălc, A. Nan).

03/2025

Participation at The Seminar "Bridges and Actions for Land and Sustainable Use and Restoration"

Presentation: "Tailoring novel eco-friendly materials for environmental decontamination" (I.-V. Ganea)

10/2024 Bucharest (Romania)

Participation at The 7th International Conference on "Emerging Technologies In Materials Engineering" (EmergeMAT)

Presentation: "Turning Waste Into Value: Developing New Adsorbent From Construction And Banana Residues For Dyes Removal From Aqueous Solutions" (I.-V. Ganea, A. Nan, C. Baciu)

10/2024 Online
Participation at "The 8th International Electronic Conference on Water Sciences"

Presentation: "Eco-Innovative Magnetic Nanostructures: Pioneering Solutions for Mining Wastewater Challenges" (I.-V. Ganea, A. Nan, C. Baciu)

11/2023 Bucharest (Romania)
Participation at The International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat Winter Edition 2023"

Presentation: "Tailoring Novel Eco-Friendly Magnetic Nanostructures for Mining Wastewater Treatment " (I.-V. Ganea, A. Nan, C. Baciu)

09/2023 Cluj-Napoca (Romania)
Participation at The 14th International Conference on Processes in Isotopes and Molecules (PIM 2023)

Presentation: "Innovative Nanostructured Polymers Based on Renewable Resources for Heavy Metals Removal from Mining Wastewaters" (I.-V. Ganea, A. Nan, C. Roba, C. Sabliov, C. Baciu)

09/2023 Bucharest (Romania)
Participation at The XXVIth Edition of The International Symposium "Environment and Industry"

Presentation "Chitosan-Based Copolymer — An Eco-Conscious Approach To Remove Harmful Heavy Metals From Mining Wastewaters" (I.-V. Ganea, A. Nan, R.Turcu, C. Baciu)

06/2023 Iasi (Romania)
Participare la The XIXth edition of "Present Environment and Sustainable Development International Conference"

Prezentare: "Eco-Friendly Chitosan-Based Copolymer For Toxic Heavy Metals Removal From Mining Wastewaters" (I.-V. Ganea, A. Nan, C. Baciu)

05/2023 Cluj-Napoca (Romania)
Participation at The National Symposium „Environment and Progress" - Sustainable Development: Approaches and Solutions for Resilient Communities

Presentation: "Development of novel environmentally-friendly materials for the effective treatment of dye-contaminated aqueous solutions" (I.-V. Ganea, A. Nan, C. Baciu)

11/2022 Bucharest (Romania)
Participation at The International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat Winter Edition 2022"

Presentation: "Eco-friendly magnetic nanomaterials for dye-contaminated aqueous solutions" (I.-V. Ganea, A. Nan, C. Baciu)

09/2022 Bucharest (Romania)
Participation at The XXVth Edition of The International Symposium "Environment and Industry"

Presentation "Efficient removal of toxic food dyes with an environmental-friendly crosslinked polymer" (I.-V. Ganea, A. Nan, C. Baciu)

12/2021 Krakow (Poland)
Participation at 2nd International Conference Strategies Toward Green Deal Implementation

Presentation: "New crosslinked eco-friendly polymer for environmental applications" (I.-V. Ganea, A. Nan, C. Baciu)

10/2021 Bucharest (Romania)
Participation at The International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2021"

Presentation: "Nanomaterials Based on Renewable Resources Applied in Mining Waters Decontamination" (I.-V. Ganea, A. Nan, C. Roba, C. Sabliov, R. Turcu, C. Baciu)

09/2021 Penang (Malaysia)

Participation at The 7th International Conference on Environment (ICENV2021)

Presentation: "Assessment of Heavy Metals Removal Efficiency of Chitosan Copolymer Applied on Contaminated Waters from Two Mining Areas in Romania" (I.-V. Ganea, C Roba, R. Turcu, C. Baciu)

08/2021 Cluj-Napoca (Romania)

Participation at The 13th International Conference on Processes in Isotopes and Molecules (PIM 2021)

Presentation: "Neoteric Clay-Based Material for Heavy Metals Removal from Mining Waters" (I.-V. Ganea, A. Nan, C. Roba, C. Baciu, R. Turcu)

08/2021 Bucharest (Romania)

Participation at The 24th International Symposium "The Environment and The Industry", SIMI 2021

Presentation: "Development of a Novel Crosslinked Polymer for Dyes Adsorption from Contaminated Aqueous Solutions" (I.-V. Ganea, A. Nan, C. Baciu, R. Turcu)

06/2021 Dublin (Ireland)

Participation at The 2021 International Conference on Resource Sustainability (icRS 2021)

Presentation: "Novel Hybrid Materials for Iron Removal from Contaminated Waters and Reduced Human Health Impact" (I.-V. Ganea. A. Nan, C. Roba, C. Sabliov, R. Turcu, C. Baciu)

05/2021 Cluj-Napoca (Romania)

Participation at The Young Researchers' International Conference on Chemistry and Chemical Engineering YRICCCE III

Presentation: "Efficient Dye Removal from Aqueous Solutions by Applying Magnetic Nanostructures Based on Functionalized Poly(Benzofuran-co-Arylacetic Acid)" (I.-V. Ganea. A. Nan, R. Turcu, C. Baciu)

05/2021 Iasi (Romania)

Participation at The 16th edition of the International Symposium "Present Environment and Sustainable Development"

Presentation: "Innovative Dopamine Functionalized Magnetic Nanomaterial For Heavy Metals Removal From Wastewaters" (I.-V. Ganea, A. Nan, M. Senila, R. Turcu, C. Baciu)

04/2021 Białystok (Poland)

Participation at The International Conference „Innovations-Sustainability-Modernity-Openness" ISMO'21

Presentation: "Neoteric material based on renewable resources for metal contaminated waters" (I.-V. Ganea, A Nan, I. Neamtiu, C. Baciu)

10/2020 Iasi (Romania)

Participation at The XVth edition of "Present Environment and Sustainable Development International Conference"

Presentation: "New promising magnetic nanomaterial for heavy metals removal from Roșia River (Roșia Montană area, Romania)" (I.-V. Ganea, A. Nan, C. Baciu)

08/2020 Cluj-Napoca (Romania)

Participation at The XIXth edition of International Conference "Life Sciences for Sustainable Development" 2020

Presentation: "Application of a novel functionalized magnetic nanomaterial for heavy metals adsorption from contaminated waters" (I.-V. Ganea, A. Nan, M. Șenilă, R. Turcu, C. Baciu)

10/2019 Cluj-Napoca (Romania)

Participation at The XIIth edition of „Environment and Progress" National Symposium

Presentation: "Assessment of new types of hybrid materials for heavy metals removal from contaminated waters and reduced human health impact" (I.-V. Ganea, A. Nan, C. Roba, I. Neamtiu, C. Baciu)

08/2019 Bucharest (Romania)

Participation at The XXII nd edition of International Symposium "Environment and Industry"

Presentation: "Application of new synthesized materials in the water decontamination from Roșia Montană mining area (Romania)" (I.-V. Ganea, A. Nan, I. Neamtiu, C. Roba, C. Baciu, R. Turcu)

08/2019 Cluj-Napoca (Romania)

Participation at The XIIth edition of International Conference "Processes in Isotopes and Molecules"

Presentation: "Materials based on poly(benzofuran-co-arylacetic acid) for the removal of Crystal Violet dye from aqueous solutions" (I.-V. Ganea, A. Nan, R. Turcu)

04/2019 Cluj-Napoca (Romania)

Participation at The XIth edition of International Conference "Air and Water Components of the Environment"

Presentation: “Comparative study of new types of materials for improved heavy metals removal from contaminated water and reduced human health impact" (I.-V. Ganea, A. Nan, R. Turcu, M. Senila, I. Neamtiu)

09/2018 Calimanesti-Caciulata (Romania)

Participation at The XXXVth edition of The National Conference on Chemistry

Presentation: " *p*-Hydroxymandelic acid as a brick for designing a new type of highly functionalized polymers" (A. Nan, I. V. Ganea, X. Filip, R. Turcu)

08/2018 Bucharest (Romania)

Participation at The XXIst edition of International Symposium "Environment and Industry"

Presentation: "New promising hybrid material based on montmorillonite for metal ions removal from contaminated water" (I.V. Ganea, A. Nan, C. Roba, R. Turcu)

04/2018 Cluj-Napoca (Romania)

Participation at The XIIth edition of International Conference "Environmental Legislation, Safety Engineering and Disaster Management" ELSEDIMA

Presentation: "New modified chitosan for improved heavy metal adsorption from wastewater" (I. V. Ganea, D. Gligor, A. Nan, R .Turcu)

04/2018 Budapest (Hungary)

Participation at The IInd edition of "Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE II)"

Presentation: "Magnetic nanostructures based on functionalized poly(benzofurane-co-arylacetic acid) for heavy metal adsorption" (I. V. Ganea, A. Nan, M. Dan, S. Porav, R. Turcu)

08/2017 Cluj-Napoca (Romania)

Participation at The XIth edition of International Conference "Processes in Isotopes and Molecules"

Presentations: "Materials based on funct ionalized poly(benzofurane-co-arylacetic acid) for wastewater treatment" (I. V. Ganea, D. Gligor, A. Nan) and "α Hydroxy acids as bricks for functionalized polymers engineering" (A Nan, M. Cîrcu, A. Bunge, A. Petran, I. Ganea, X. Filip, R. Turcu)

08/2017 Goslar (Germany)

Participation at The XIIIth edition of "International Conference on Iminium Salts (ImSaT 13)"

Presentation: "Poly(benzofurane-co-arylacetic acid) a new type of highly functionalized polymers" (A. Nan, A. Bunge, M. Cîrcu, I. V. Ganea, X. Filip, J. Liebscher)

06/2017 Liverpool (UK)

Participation at The XIIIth edition of "International Conference on Materials Chemistry"

Presentation: "New Polyesters for Coating Surfaces" (A. Nan, M. Cîrcu, A. Bunge, A. Petran, I-V. Ganea , X. Filip, J. Liebscher)

04/2016 Cluj-Napoca (Romania)
Participation at The XIth edition of International Conference "Environmental Legislation, Safety Engineering and Disaster Management" ELSEDIMA (Section Ecouniversitaria)

Presentation: "Assessment of environmental quality in Lacu Sărat Area (Brăila County, Romania)" (I. V. Ganea , R. Balc, D. Gligor, C. Roba, M. Moldovan)

04/2015 Iasi (Romania)
Participation at The National Geology Students Symposium

Presentation: "The influence of Chiscani Thermal Power Plant activity (Chiscani, Braila County) on the environmental factors" (I. V. Ganea, R. Balc, D. Gligor, C. Roba, M. Moldovan)

04/2014 Cluj-Napoca (Romania)
Participation at "Ecouniversitaria" International Symposium

Presentations: "Soil-based miniaturized microbial fuel cells" (M. Groza, I. V. Ganea, M. Pozna, M. Anton) and "NO2− and S2- detection in water and soil samples using amperometric sensors and monitoring activities of bacteria involved in sulfur cycle from Baia de Arieş mining area, Alba County" (P. Lungu, I. V. Ganea, R. Balc, C. Roba)

PROJECTS

2025 – 2026
Scientific Researcher - Young Research Teams Project PN-IV-P2-2.1-TE-2023-0129

Project "Metal Complexes of Polycarboxylate Polymers"

2023 – 2026
Scientific Researcher - Core Project MAT-EN-BIO PN23 24, Contract Nr. 27N/03.01.2023

Project "Innovation and Artificial Intelligence in The Field of Functionalized Materials, Energy and Bioeconomy"

2021 – 2023
Scientific Researcher - Project PCE PN-III-P4-ID-PCE-2020-1595, Contract Nr. PCE 33/2021

Project "Neoteric polymers with tunable thermal conductivity"

2020 – 2021
Project Manager - UNESCO MAB Young Scientist

Project "Designing efficient strategies for the implementation of an ecotourism network in the Sfântu Gheorghe Channel area of the Danube Delta Biosphere Reserve"

2020 – 2021
Target Group Member - POCU/380/6/13/123886 Project: "Entrepreneurship for innovation through doctoral and postdoctoral research"

Project Business Plan Start-Up Nation Model - Business Name: **BIOSeed S.R.L - WEECO S.R.L**

2019 – 2021
Scientific Researcher - Contract 298/8.10.2020 INCDTIM-DiFeRiT SRL, Project POC TTC – ITIM

Project "Innovative products for recycling rock dust resulted as waste in the process of aggregates processing"

2018 – 2022
Cercetator Stiintific - Proiect Nucleu PN19-35-IZO-MOL-EA, Contract nr. 36N/13.02.2019

Proiect "Isotopic, molecular technologies and alternative energies"

2017 – 2020

Research Assistant - Project PCCDI Nr. 58PCCDI 2018 - Development of National Research & Development System

Project "New methods for diagnosis and treatment: current challenges and technological solutions based on nanomaterials and biomaterials"

2016 – 2018

Research Assistant - Core Project IZOMOL 18 - code PN18 03 P5

Project "New approaches in the field of isotopic and molecular technologies - Nanocomposite materials with applications in decontamination, nanomedicine, photovoltaic systems and data storage/processing"

2017 – 2020

Research Assistant - Project PCCDI Contract Nr. 58PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0062 - Development of National Research & Development System

Project "Development of innovative solutions to improve radioisotope treatment techniques"

2016 – 2017

Research Assistant - Core Project - PN16 30 02 02

Project "Isotopic and molecular technologies: From research and development to innovation - Nanostructured materials with adjusted properties for specific applications in health and environmental field"

2016 – 2018

Research Assistant - Young Research Teams Project - PN II RU TE 2014 4 0654

Project "Polyesters with special properties for coating solid surfaces with applications in medicine and nanotechnology"

2016 – 2017

Project Manager - Interdisciplinary Research Funded by Babes-Bolyai University via Students' Academic Performance College

Project "Monitoring environmental factors in Lacu Sărat area, Brăila County - Case Study: Development of new salt water decontamination techniques and their comparative analysis"

2016 – 2017

Team Member - Interdisciplinary Research Funded by Babes-Bolyai University via Students' Academic Performance College

Project "Tele-earthquakes and records of the ROEDUSEIS (FȘIM UBB) educational seismometer for the identification and interpretation of seismic earthquakes"

2015

Project Manager - Contract No. 35226/11.11.2015 (Scientific Performance Scholarship) funded by Babeș-Bolyai University

Project "Monitoring environmental factors in the Lacu Sărat area, Brăila County"

HONOURS AND AWARDS

11/2023

Best Paper Award – International Scientific Conference NanoBioMat2023 - winter edition

10/2023

Excellence Award and Pro Invent Medal – The International Exhibition of Research, Innovations and Inventions (Pro Invent 2023)

Medal received for OSIM Patent No. 134031/30.09.2022

12/2022

Best Paper Award – International Scientific Conference NanoBioMat2022 - winter edition

07/2021

Best Presentation Award – International Conference on Resource Sustainability (icRS 2021, Dublin, Ireland)

06/2021

Best Project (Digital Challenge) - The Circular Economy Hackathon

Project WEECO - Addressing Environmental Challenges While Promoting Culture and Digitization

Link https://circularhackathon.ircem.ro/wp-content/uploads/2021/06/Digital-1.pdf

05/2021

Excellentia Award - PhD Students Category, Doctoral School of Environmental Science – Babes-Bolyai University Cluj-Napoca

11/2020

UNESCO MAB Young Scientist Award – UNESCO

Project "Designing efficient strategies for the implementation of an ecotourism network in the Sfântu Gheorghe Channel area of the Danube Delta Biosphere Reserve"

05/2017

Excellentia Award - Students Category - Environmental Science and Engineering Field – Babes-Bolyai University Cluj-Napoca

10/2015

Scientific Performance Scholarship – Babes-Bolyai University

Contract no. 35226/11.11.2015: "Monitoring environmental factors in Lacu Sarat area, Braila County"

05/2015

Ursus Scholarship - Students for Community – Babes-Bolyai University

05/2013

Ist Prize - Ecouniversitaria International Symposium – Babes-Bolyai University

Presentation "Miniaturized microbial fuel cells"

Academic Performance Scholarships – Babes-Bolyai University

2012-2018

PATENTS

2025

OSIM Patent Application No. A00516/06.11.2025

Title: “Composite based on stone powder and recycled expanded polystyrene and the method for its preparation.” (I.-V. Ganea, A. Nan)

2024

OSIM Patent Application No. A00660/31.10.2024

Title: “Sustainable composite based on recycled food waste and the method for its preparation.” (I.-V. Ganea, A. Nan)

2023

OSIM Patent Application No. A00724/22.11.2023

Title: “Composite material based on organic food residues and the method for its preparation for environmental protection applications.” (I.-V. Ganea, A. Nan)

2023

OSIM Patent No. 133609/30.01.2023

Title: "Montmorillonite modified with poly(benzofurane-co-arylacetic) acid functionalized with dopamine" (I. V. Ganea , A. Nan, R. Turcu)

2022
OSIM Patent No. 134031/30.09.2022

Title: "Magnetic nanostructures based on polymer functionalized with chelated agents" (I.-V. Ganea , A. Nan, R. Turcu)

2022
OSIM Patent No. 133503/29.04.2022

Title: "Copolymer based on chitosan and synthesis procedure" (I. V. Ganea , A. Nan, R. Turcu)

COURSES

11/2016
Mentorship and Professional Training on The Procedure of Issuing Permits by Protected Areas' Administrators for The Environmental Impact Assessment (EIA)

The course was organized by Nature 2000 Coalition Federation in collaboration with ProPark Foundation

03/2016
Sustainable Forests' Management

The course was organized by ProPark Foundation

10/2015
How to be a green entrepreneur (Erasmus+)

The training was organized by Youth and Environment Europe (Prague, Czech Republic)

ARTICLES IN INTERNATIONAL MEDIA

11/2021
How a Romanian village resurrected the Danube Delta after the fall of the Iron Curtain

The Conversation France

Link https://theconversation.com/how-a-romanian-village-resurrected-the-danube-delta-after-the-fall-of-the-iron-curtain-169180

BSC THESIS COORDINATED

2025
Composite Materials Based on Organic and Inorganic Waste for the Decontamination of Water Polluted with Heavy Metals

Student: Mureșeanu Paul-Sebastian
Scientific Supervisors: Assoc. Prof. Dr. R. Bălc, PhD Candidate I.-V. Ganea
Faculty of Environmental Science and Engineering (Babeș-Bolyai University, Cluj-Napoca)

2025
Adsorption of Heavy Metals Using Composite Materials Based on Watermelon Rind

Student: Crăciun Nicola Ștefania
Scientific Coordinators: Assoc. Prof. Dr. R. Bălc, PhD Candidate I.-V. Ganea
Faculty of Environmental Science and Engineering (Babeș-Bolyai University, Cluj-Napoca)

2024
Assessment of Groundwater Quality in Dumbrăveni Village, Ciceu-Giurgești Commune, Bistrița-Năsăud County, Romania

Student: Marton Zara-Berta
Scientific Coordinators: Assoc. Prof. Dr. R. Bălc, Senior Researcher II Dr. C. Roba, PhD Candidate I.-V. Ganea
Faculty of Environmental Science and Engineering (Babeș-Bolyai University, Cluj-Napoca)

Influence of Compost on the Soil Solubilization Process in Sandy Substrates

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