2. Mobilitate internă și externă pentru diseminarea rezultatelor (conferințe, participări la congrese științifice internaționale), anul 2024 (anul al III - lea). https://bionanosurf.ugal.ro/

În anul 2024 s-a reuşit participarea la **2 conferințe științifice** internaționale cu **4 lucrări prezentate oral**, depășind numărul propus în planul de realizare, astfel:

Trei profesori și cerectători științifici de la Universitatea Dunărea de Jos din Galați, membri ai proiectului de cercetare științifică 102/2024 sau colaboratori au participat, cu prezentări științifice KeyNote sau Oral la Sesiunea științifică International Conference on Materials Science, Engineering and Technology, 10-12 Septembrie 2024, Furama RiverFront, SINGAPORE. The theme of the conference was: "Shaping The Future Through Materials Research And Innovation".

https://www.chemistryviews.org/2nd-international-conference-on-materials-science-engineering-and-technology-2024/

www.materialsconference.net















https://materialsconference.net/conference-abstract-book/https://materialsconference.net/conference-program/

Cele 3 lucrări științifice au fost denumite și prezentate astfel:

2.1. Session 1: OPENING AND PLENARY SESSION, 10 September 2024.

Keynote Talk at Session 9: Materials Horizons for New Edge Technology.

Title: Nanoporous TiO2 film obtained elecrochemically on Ti6Al4V implant alloy.

Presenter: Lidia Benea, Dunărea de Jos university of Galati, Romania.

Authors: Lidia Benea, Daniela Laura Buruiană.

https://materialsconference.net/conference-abstract-book/

https://materialsconference.net/conference-program/



2.2. Session 4: BIOMATERIALS and BIODEVICES, 10 September 2024

Oral presentation.

Title: Corrosion behavior of 316L stainless steel structures in salivary solutions in the presence of lactic acid.

Presenter: Daniela Laura Buruiană.

Authors: Daniela Laura Buruiană, Lidia Benea.

https://materialsconference.net/conference-abstract-book/

https://materialsconference.net/conference-program/



2.3. Session 20: ADVANCED MATERIALS FOR SUSTAINABILITY AND INNOVATION Keynote Talk:

Title: Surface functionalization of zinc with polymers by electrochemical techniques for

enhanced properties.

Presenter: Alina Crina Ciubotariu

Authors: Alina Crina Ciubotariu, Lidia Benea.

https://materialsconference.net/conference-abstract-book/

https://materialsconference.net/conference-program/



2.4. Chair Sesiune 9.

La această conferință, profesor Lidia Benea a fost chair la Sesiunea 9 (Session 9): Materials Horizons for New Edge Technology, 11 September 2024.

Session 9: Materials Horizons for New Edge Technology.

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SESSION 9: MATERIALS HORIZONS FOR NEW EDGE TECHNOLOGY

Date: 11 September 2024 Time: 09:00-10:30 (SGT) Room B: Mercury II (Level 5)

Chair: Lidia Benea, Dunarea de Jos University of Galati, Romania

09:00-09:20 Invited Talk (Virtual)

Title: Native point defect control of Schottky barriers and piezovoltage in ZnO nanowires

Leonard J Brillson, The Ohio State University, United States

09:20-09:40 Invited Talk (Virtual)

Title: Acoustofluidics-enabled Raman spectroscopy of living human red blood cells in a 3D-printed chip

Ueslen Rocha Silva, Federal University of Alagoas, Brazil

09:40-10:00 Invited Talk (Virtual)

Title: Harvesting neutralization energy creatively

Guo-Ming Weng, Shanghai Jiao Tong University, China

10:00-10:20 Invited Talk (Virtual)

Title: Developing carbon materials for energy storage solutions

Manmatha Mahato, Korea Advanced Institute of Science and Technology, South Korea

10:20-10:30 e-Poster Presentation (Virtual)

Title: Electrical and thermal properties of XLPE based nanocomposites for cable insulation Nur Amira Nor Arifin, Cable Diagnostics Laboratory, TNB Research, Malaysia

10:30-11:00 Networking Coffee/Tea Break at Conference Area, Level 5

11 SEPTEMBER 2024: DAY 2

SESSION 8: PLENARY SESSION

Date: 11 September 2024 Time: 09:00-10:30 (SGT) Room A: Mercury III (Level 5)

Chair: John Zhou, University of Technology Sydney, Australia

09:00-09:30 Keynote Talk

Title: Emerging semiconductor ionic materials and advanced fuel cells Bin Zhu, Southeast University, China

09:30-10:00 Keynote Talk Title: Designing and optimizing alternant and non-alternant nanographenes for spintronic and optoelectronic

Aristides Zdetsis, University of Patras, Greece

10:00-10:30 Keynote Talk

Title: Phonon-mediated microfluidic synthesis, processing and manipulation of two-dimensional and bulk crystals

Leslie Yeo, Royal Melbourne Institute of Technology, Australia

SESSION 9: MATERIALS HORIZONS FOR NEW EDGE TECHNOLOGY

Date: 11 September 2024 Time: 09:00-10:30 (SGT) Room B: Mercury II (Level 5)

Chair: Lidia Benea, Dunarea de Jos University of Galati, Romania

09:00-09:20 Invited Talk (Virtual)

Title: Native point defect control of Schottky barriers and piezovoltage in ZnO nanowires **Leonard J Brillson**, The Ohio State University, United States

09:20-09:40 Invited Talk (Virtual)
Title: Acoustofluidics-enabled Raman spectroscopy of living human red blood cells in a 3D-printed chip Ueslen Rocha Silva, Federal University of Alagoas, Brazil

09:40-10:00 Invited Talk (Virtual)
Title: Harvesting neutralization energy creatively
Guo-Ming Weng, Shanghai Jiao Tong University, China

10:00-10:20 Invited Talk (Virtual)

Title: Developing carbon materials for energy storage solutions

Manmatha Mahato, Korea Advanced Institute of Science and Technology, South Korea

10:20-10:30 e-Poster Presentation (Virtual)
Title: Electrical and thermal properties of XLPE based nanocomposites for cable insulation

Nur Amira Nor Arifin, Cable Diagnostics Laboratory, TNB Research, Malaysia

10:30-11:00 Networking Coffee/Tea Break at Conference Area, Level 5

Date: 11 September 2024; Time: 09:00-10:30 (SGT).

Room B: Mercury II (Level 5)

Chair: Lidia Benea, Dunarea de Jos University of Galati, Romania.

https://materialsconference.net/conference-program/

2.5. Adrian Mazilu, **Lidia Benea**, Vasile Basliu.

Corrosion Resistance in Seawater of Low Alloy Steels BVDH36 and LRAH36.

Lucrare prezentată la:

12th Edition of SCDS-UDJG, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati, 6th and 7th of June 2024, Section "Future of Nanotechnologies, Functional Materials and Coatings".



https://cssd-udjg.ugal.ro/ https://cssd-udjg.ugal.ro/index.php/programme