Report on the outcomes of a presentation and participation - Young Researcher and Innovator Conference[1]

Action number: CA21126-Carbon molecular nanostructures in space

Grantee name: Minadakis Michail Panagiotis

Conference Details

Conference title: **NANO 2026**

Conference web-page: **https://www.nano2026.com/home**

Conference venue[2]: **Department of Architecture and Design-DAD UniGe, Stradone di Sant' Agostino 37, 16123 Genova (GE), Italy**

Accepted contribution details

Title of the presentation: **Platinum nanoparticles immobilized onto multi-walled carbon nanotubes through *N*-heterocyclic carbene spacer as a highly potent HER electrocatalyst**

Type of the presentation: **Poster**

Co-authors: **Amalia Rapakousiou, Savvas G. Chalkidis, María Luisa Ruiz-González, Cristina Navio, Georgios C. Vougioukalakis, and Nikos Tagmatarchis**

Other details of the presentation: **"Carbon-based nanostructures" topic**

Outcome of the conference participation

Description of the outcome of the presentation of the accepted contribution, in terms of grantee's visibility, including the establishment of new contacts for future collaborations

The 18th version of the international conference NANO 2026 acted as a hub for researchers of different areas of nanomaterial science from all around the world to gather and "stir the pot". This opportunity offered fertile ground to unlock new points of view in their respective fields. Innovative works exploring both well-studied as well as scarcely ventured fields of nanocarbon applications were showcased, providing a great opportunity to exhibit recent results on the chemistry and catalytic potential of nanocarbons.

The novel work presented, demonstrated the electrocatalytic ability of a complex system comprised of Platinum nanoparticles stabilized by *N*-heterocyclic carbene moieties pinned onto multi-walled carbon nanotube (MWCNT) backbone. The results of this study captured the attention of researchers from different backgrounds with specialties in the field of nanocarbons or the field of catalysis. These discussions offered the opportunity to exchange ideas on possible ways to extend this research as well as future applications. Aside from the above, I was able to interact with peers by viewing and listening

[1] This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the Grant Holder Manager to verify the grant documents compliance and proceed with the payment.

[2] For an online conference, specify virtual participation; for hybrid conferences, specify whether it is an in-person or virtual participation.

to talks/posters presenting the newest nanocarbon applications and I could be informed on where the research on nanocarbons is heading to. The succinct presentation of the poster contribution also worked as a catalyst for drawing the interest of researchers outside the field of nanocarbons, further reinforcing the dissemination purpose of my work. Overall, I had the chance to talk with motivated young researchers, experience different aspects of nanocarbon-based systems and applications, and contemplate on how each different research pathway acts as a “step” towards deeper understanding of how nanocarbons intertwine with the cosmos.

In summary, both the novel nanocarbon-based studies presented and the as well as our study had a common denominator the challenge of the state-of-the-art. The work presented has as its main objective the uncovering of various aspects of nanocarbon behavior and it aligns perfectly with the main goal of the “Carbon molecular nanostructures in space” COST action which is to deeply understand such phenomena to a degree that makes it easy to be able to detect them in the outer space.



Snippets from the conference.

Acknowledgement of inclusion of necessary supporting documents to claim the grant

I confirm that the following documents have been uploaded on e-COST as an integral part of this report:

- the certificate of conference attendance issued by the conference organiser.

- the programme of the conference or book of abstracts / proceedings indicating the presentation (oral or poster) of the grantee.