The role of Base molecules in AErosol formation

Fact Sheet

Project Information

BAE
Grant agreement ID: 101076311

Funded under
European Research Council (ERC)

DOI
10.3030/101076311

Total cost
€ 2 248 644,00

EU contribution
€ 2 248 644,00

Start date
1 May 2023
End date
30 April 2028

Coordinated by
THE CYPRUS INSTITUTE
Cyprus

Project description

Shedding light on aerosol formation and impact

Climate change presents a significant threat to people worldwide, underscoring the need for innovative air quality and weather forecasting models that have reduced uncertainties during climate change projections. Developing these models will require a better understanding of aerosol growth and formation. The EU-funded BAE project will address this need by investigating amines. These are expected to form aerosol particles at much higher rates than pollutants such as ammonia; however, they are not currently accounted for in atmospheric projections. The project will also study base molecules and their impact on aerosol formation and other particles, providing critical insights into the atmosphere and related effects.
Fields of science

natural sciences > earth and related environmental sciences > atmospheric sciences > meteorology
engineering and technology > environmental engineering > air pollution engineering
natural sciences > chemical sciences > organic chemistry > amines
natural sciences > earth and related environmental sciences > atmospheric sciences > climatology > climatic changes
natural sciences > chemical sciences > analytical chemistry > mass spectrometry

Keywords

ammonia, mass spectrometry, air pollution, base, new particle formation, aerosol

Programme(s)

HORIZON.1.1 - European Research Council (ERC)

Topic(s)

ERC-2022-STG - ERC STARTING GRANTS

Call for proposal

ERC-2022-STG

See other projects for this call

Funding Scheme

ERC - Support for frontier research (ERC)

Coordinator
THE CYPRUS INSTITUTE

Net EU contribution
€ 2 248 644,00

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Region
Κύπρος > Κύπρος > Κύπρος

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

EC signature date 14 February 2023
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Permalink: https://cordis.europa.eu/project/id/101076311

European Union, 2023