The role of Base molecules in AErosol formation

Fact Sheet

Project Information

BAE

Grant agreement ID: 101076311

DOI

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Funded under

European Research Council (ERC)

Total cost

€ 2 248 644,00

EU contribution

€ 2 248 644,00

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

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

Other funding
€0,00

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