Conference Agenda

Session

Poster Session Monday

Time: **Monday, 01/Sept/2025: 5:15pm - 6:45pm**

Location: **Studium2000 Building5**

V.le San Nicola corner, Via di Valesio, 73100 Lecce LE

Presentations

PO1: 1

Advancing Atmospheric Research in the Eastern Mediterranean: Insights from the Cyprus Atmospheric Remote Sensing Observatory

Hossein Panahifar[1], Maria Poutli[1,2], George Kotsias[1], Argyro Nisantzi[1,2], Silas Michaelides[2], Diofantos Hadjimitsis[1,2], Patric Seifert[3], Albert Ansmann[3], Rodanthi-Elisavet Mamouri[1,2]

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PO1: 2

Assessing the Sources of PM1 Trace Elements in the Marseille-Fos Basin through Rolling Positive Matrix Factorization Crossed-Study

Mathilde Brezins[1], Benjamin Chazeau[1], Nicolas Marchand[1], Amandine Durand[1], Grégory Gille[2], Jean-Luc Jaffrezo[3], Gaëlle Uzu[3], Barbara D'Anna[1]

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PO1: 3

Atmospheric Dry Deposition in the Central Mediterranean Seen from a Single-Particle Perspective

Marcos Eduardo Pérez Morán[1], Kilian Schneiders[1], Melanie Eknayan[1], Fernando De Tomasi[2], Pierina Ielpo[3], Mark Scerri[1,4], Michael Nolle[5], Konrad Kandler[1]

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PO1: 5

Characterization of the Atmospheric Microbiome at a high-altitude station in the eastern Mediterranean using Flow Cytometry

Ernest Abboud[1], Carolina Molina[1,2], Sofia Gkretsi[1], Romanos Foskinis[1,3], Promodos Fetfatzis[4], Konstantinos Granakis[4], Konstantinos Eleftheriadis[4], Athanasios Nenes[1,2], Kalliopi Violaki[1]

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PO1: 6

Drivers of cloud droplet number using a synergy of remote sensing and in situ instrumentation during the Cleancloud Helmos OrograPhic site experimeNt (CHOPIN)

Romanos Foskinis[1], Nicole Clerx[1], Marilena Gidarakou[2], Christos Mitsios[3], Carolina Molina[3], Kaori Kawana[3], Prodromos Fetfatzis[4], Maria Gini[4], Olga Zografou[4], Konstantinos Granakis[4], Aiden Jönsson[5], Paul Zieger[5], Lu Zhang[6], Andreas Massling[6], Mika Komppula[7], Konstantinos Eleftheriadis[4], Alexandros Papayannis[2], Alexis Berne[1], Athanasios Nenes[1,3]

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PO1: 7

Interactions between urban heat island (UHI) and urban pollution island (UPI) under key atmospheric conditions

Andrea Cecilia[1], Annalisa Di Bernardino[2], Margherita Erriu[2], Anna Maria Siani[2], Giampietro Casasanta[1], Marianna Conte[1], Lorenzo Marinelli[3], Stefania Argentini[1]

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PO1: 8

Long-term aerosol acidity in the urban center of Athens, Greece

Aikaterini Bougiatioti[1], Kalliopi Petrinoli[1,2], Iasonas Stavroulas[3], Maria Tsagkaraki[2], Nikolaos Mihalopoulos[1]

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PO1: 9

Do Medicanes promote high dust concentrations in Italy? – A case study on the 2014 Medicane 'Qendresa'

Franziska Vogel[1], Fabio Massimo Grasso[2], Umberto Rizza[2], Marco Zanatta[1], Angela Marinoni[1]

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PO1: 10

Heavy Metal(loid) fluxes and microbial community associated to Bulk Atmospheric Deposition in the port area of Ancona

Matteo Fanelli[1], Marco Basili[1], Grazia Marina Quero[1], Emanuela Frapiccini[1], Lorenzo Massi[2], Federico Girolametti[2], Behixhe Ajdini[2], Cristina Truzzi[2], Anna Annibaldi[2], Pierluigi Penna[1], Gian Marco Luna[1], Silvia Illuminati[2]

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PO1: 11

Characterization of the Atmospheric Microbiome in a Semi-Rural Area of Central Europe Using Flow Cytometry

Ernest Abboud[1], Pierre Rossi[2], Benoit Crouzy[3], Athanasios Nenes[1,4], Kalliopi Violaki[1]

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PO1: 12

Bicycle-based mapping of black carbon across the streets of Milan

Valeria Paola Mardonez Balderrama[1], Laura Renzi[1], Luca Boniardi[2], Cecilia Magnani[1], Marco Rapuano[1], Marco Zanatta[1], Alessandro Bigi[3], Ferdinando Pasqualini[1], Cristina Colombi[4], Angela Marinoni[1]

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PO1: 13

URBAN EMISSIONS FATE TOWARDS SECONDARY AEROSOL FORMATION; A CHAMBER STUDY

Sana Farhoudian[1], Rabbia Asgher[1], Avinash Kumar[1], Shawon Barua[1], Fariba Partovi[1], Matti Rissanen[1,2]

[1]Tampere University, Finland; [2]University of Helsinki, Finland

PO1: 14

Antibacterial electrospun wound dressing with flame-made Ag/SiO2 nanoparticles

Reshma V. Ramachandran[1,2], Jennifer Geara[3], Maria Samara[1,2], Thomas Thersleff[4], Ning Xu Landén[3], Georgios A. Sotiriou[1,2]

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PO1: 15

Decreasing or increasing pollution in the Mediterranean atmosphere? 16 years of black carbon observations at the Monte Cimone GAW Global Station integrated with FLEXPART and COPERNICUS products.

Marco Zanatta[1], Paolo Bonasoni[1], Paolo Cristofanelli[1], Sabine Eckhardt[2], Nikolaos Evangeliou[2], Cecilia Magnani[1], Davide Putero[1], Laura Renzi[1], Franziska Vogel[1], Angela Marinoni[1]

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PO1: 16

Effects of Soil Amendments on Soil Carbon Sequestration Stability and Nutrient Availability in Fukuyama Lettuce: Applications of Biochar and Black Soldier Fly Frass

Man-Chu Hsiao, Chang-Tanh Chang

Department of Environmental Engineering, National Ilan University, Yilan City, 260007, Taiwan, Taiwan

PO1: 17

Investigating New Particle Formation and Growth over an Urban Location in the Eastern Mediterranean

Yinon Rudich

Weizmann Institute, Israel

PO1: 18

The Italian Automated Lidar Ceilometer Network ALICENET: From Near Real-time Monitoring to Long-term Characterisation of Aerosol Vertical Distributions across Italy

Francesca Barnaba[1], Annachiara Bellini[2], Alessandro Bracci[1], Henri Diemoz[2], Luca Di Liberto[1], Caterina Mapelli[1,3], Ferdinando Pasqualini[1]
[1]CNR-ISAC, Italy; [2]ARPA Valle d'Aosta, Italy; [3]CNR-IMAA, Italy

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PO1: 19

State of the art of lunar sun-photometry algorithms and application to Izaña 2023 MAPP campaign

Monica Campanelli[1], Victor Estelles[2], Gaurav Kumar[2], Africa Barreto[3], Natalia Kouremeti[4], Roberto Roman[5], Ramiro Gonzalez[2], Pablo Gonzalez[3], Lionel Doppler[6], Mauro Mazzola[7], Anca Nemuc[8], Stefano Casadio[9], AnnaMaria Iannarelli[9], Paola Russo[10]
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PO1: 20

Ground-Based Comparison and Validation of ATLID/EarthCARE L2 Aerosol and Cloud Products: Integrating E-PROFILE and AERONET Data

Onel Rodríguez-Navarro[1,2], Jorge Muñiz-Rosado[1,2], Alberto Cazorla[1,2], Roberto Román[3,4], Alexander Haefele[5], Eric Sauvageat[5], Ana Del Águila[1,2], Daniel Pérez-Ramírez[1,2], Lucas Alados-Arboledas[1,2], Francisco Navas-Guzmán[1,2]
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PO1: 21

Optical and microphysical properties of local and long-range transport biomass burning aerosols with remote sensing techniques

Riccardo Damiano[1], Alessia Sannino[1], Zeeshan Ali[1], Matteo Manzo[1], Salvatore Spinosa[1], Salvatore Amoruso[1], Antonella Boselli[2]
[1]University Federico II of Naples, Italy; [2]Consiglio Nazionale delle Ricerche, Istituto di Metodologie per l'Analisi Ambientale (IMAA-CNR)

PO1: 22

Validation of aerosol extinction and mass profiles derived from elastic LIDARs using in-situ measurements

Martine Collaud Coen[1], Maxime Hervo[1], Lena Fasnacht[1], Melania van Hove[2], Benjamin Brem[3], Robin Modini[3], Martin Gysel-Beer[3], Augustin Mortier[4], Martine Collaud Coen[5], Alexander Haefele[1]
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PO1: 23

Deep-Pathfinder algorithm for ground-based assessment of ATLID/EarthCARE L2 aerosol product

Laurel Molina-Párraga[1,2], Ana del Águila[1,2], Jorge Muñiz-Rosado[1,2], Onel Rodriguez-Navarro[1,2], Alexander Haefele[3], Eric Sauvageat[3], Francisco Navas-Guzmán[1,2], Lucas Alados-Arboledas[1,2]
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PO1: 24

Enhanced Fire Detection in Industrial Complexes Using Scanning LiDAR Technology

Kwanchul Kim[1], Seong-Min Kim[1], Sung-Jo Kim[1], Sae-ho Oh[1], Gahye Lee[1], Min-kyung Sung[1], Jeong-Min Park[1], Youngmin Noh[2], Kwonho Lee[3], Young J. Kim[3], Sungchul Choi[4], Changgi Choi[4], Woosuk Choi[5], Chunsang Hong[6]
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PO1: 25

Integrating remote sensing and in-situ measurements to assess the impact of PBL dynamics on air pollution in Milan, Po valley (Italy)

Camilla Perfetti[1,2], Francesca Barnaba[3], Annachiara Bellini[3], Alessandro Bracci[2], Marco Zanatta[2], Laura Renzi[2], Luca Di Liberto[3], Ferdinando Pasqualini[2], Angela Marinoni[2]
[1]Department of Physics and Astronomy, University of Bologna, Bologna, 40126, Italy; [2]Institute of Atmospheric Sciences and Climate, National Research Council of Italy, Bologna, 40129, Italy; [3]nstitute of Atmospheric Sciences and Climate, National Research Council of Italy, Rome, 00133, Italy

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PO1: 26

Remote Sensing Observations of Aerosol-Cloud Interactions in a Nitrogen Polluted Environment

Namita Sinha[1], George Biskos[1,2], Farhan R. Nursanto[3], Herman Russchenberg[1], Isabelle Steinke[1], Ulrike Dusek[4]
[1]Faculty of Civil Engineering and Geosciences, Delft University of Technology, Netherlands, The; [2]Climate and Atmosphere Research Center, The Cyprus Institute, Nicosia 2121, Cyprus; [3]Meteorology and Air Quality (MAQ), Wageningen University and Research (WUR), the Netherlands; [4]Centre for Isotope Research (CIO), University of Groningen, Groningen 9747 AG, the Netherlands

PO1: 27

Synergy of PollyXT Lidar & sun/sky photometer to retrieve aerosol properties utilizing GRASP algorithm in Limassol, Cyprus

Athina Savva[1,2], Argyro Nisantzi[1,2], Francesco Scarlatti[1], Anton Lopatin[3], Diofantos Hadjimitsis[1,2], Rodanthi Elisavet Mamouri[1,2]

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PO1: 28

Assessment of microplastic particle exposure in indoor football halls by correlative microscopy

Maike Stange[1], Carla Ribalta[1], Torben Peters[1], John Schumann[1], Nico Dziurowitz[1], Carmen Thim[1], Asmus Meyer-Plath[1], Monica Andreassen[2], Berit Brunstad Granum[2], Igor Snapkow[2], Raymond Pieters[3], Hubert Dirven[2], Dirk Broßell[1]

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PO1: 29

Optimized Flotation Separation for the Characterization of Airborne Microplastics

Andrea Fricano[1], Francesca Buiarelli[1], Fabio Candiano[1], Giulia Simonetti[1], Patrizia Di Filippo[2], Donatella Pomata[2], Carmela Riccardi[2]

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PO1: 30

Study of airborne microplastics emissions in workplaces

Federica Bianchi[1], Marianna Pascucci[1], Elena Messina[1], Cristina Riccucci[1], Adriana Pietrodangelo[2], Donatella Pomata[3], Gabriella Di Carlo[1]

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PO1: 31

Atmospheric microplastics modelling and quantification using Gibbs sampler

Ondřej Tichý[1], Nikolaos Evangeliou[2], Václav Košík[1], Václav Smidl[1]

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PO1: 32

Airborne Microplastic: Dry vs. Wet Precipitation Effects and Morphological Evaluation

Yuliya Logvina, Helena Ribeiro, Luis Pinto da Silva, Joaquim Esteves da Silva

University of Porto, Portugal

PO1: 33

Analysis of microplastics in airborne particulate matter (PM) in Krakow, south Poland: Review of separation techniques, in vitro toxicity, and health impacts

Dominika Uchmanowicz[1], Katarzyna Styszko[1], Madawan Chootham[1], Justyna Pyssa[1], Xymena Badura[2]

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PO1: 34

Indoor and Outdoor Airborne Microplastics in School Settings

Steigvilė Byčenkienė[1], Ieva Uogintė[1], Lina Davulienė[1], Sergej Šemčuk[1], Vadimas Dudoitis[1], Simonas Kecorius[1,2], Mario Lovric[3,4]

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PO1: 35

Microplastic particles in atmospheric bulk deposition samples in Berlin, Germany

Andreas Held[1], Sarmite Kernchen[2], Martin G.J. Löder[2], Christian Laforsch[2]

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PO1: 36

Quantification of Near Real-Time Tyre Wear Particles in the Ambient PM2.5 Using Online Aerosol Mass Spectrometer

Rongyan Fang[1], Gang Chen[1], Max Priestman[1], Henry Blake[1], Eric Auyang[1], Stephanie Wright[1,2], David C. Green[1,2]

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PO1: 37

Size segregated, highly-time resolved elemental source apportionment at two European transportation hotspots

Laurence Christian Windell[1], Kristina Glojek[2], Benjamin Chazeau[1,3], Andres Alastuey[2], Xavier Querol[2], Manos Ioannis Manousakas[4], Cristina Colombi[5], Roberta Vecchi[6], Kaspar Rudolf Daellenbach[1], Jay Gates Slowik[1], André Stephan Henry Prévôt[1]

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PO1: 38

Electrical Charging State and Effective Density of Brake Wear Particles

Sara Bengtsdotter[1], Jussi Hoivala[2], Yezhe Lyu[3], Philipp Wacker[1], Vilhelm Malmborg[1,4], Topi Rönkkö[2], Jens Wahlström[3], Joakim Pagels[1,4]

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PO1: 39

Investigations of Gaseous Emissions from Vehicle Braking Process with Chemical Ionization Mass Spectrometry

Wandera Kisimbiri[1,2], Romain Couval[3], Karine Elihn[1], Ulf Olofsson[3], Sophie Haslett[1,2], Sarah Steimer[1,2]

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PO1: 40

On-Road Measurements of Wetness, Road Dust and Tyre Wear Particle from Truck

Sara Janhäll[1,3], Joacim Lundberg[2], Sebastian Schill[1], Jonas Sjöblom[1]

[1]Chalmers; [2]Lunds University; [3]RISE

PO1: 41

Identification of Non-Exhaust Emissions in Laboratory and Field Measurements

Seongho Jeong[1], Julian Schade[1], Carsten Neukirchen[1], Michael Maeder[2], Christian Trapp[3], Thomas Adam[1]

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PO1: 42

An experimental characterization of PM emissions from railway braking events for the design of sustainable brake pads

Gianluigi De Falco[1], Giuseppe Russo[2], Vittorio De Soccio[2], Andrea D'Anna[3]

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PO1: 43

Chemical and Morphological Characterisation of Particulate Matter from Brake Pads

Cecilia Gomiero[1,3], Enrico Casamassa[2], Giovanna Gautier di Confiengo[3], Carmela Russo[3], Barbara Apicella[3], Maria Giulia Faga[3], Dominika Zabiegaj[4], Giuliana Magnacca[1]

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PO1: 44

Chemical composition of brake wear particles – results from two different brake pads

Sanna Saarikoski[1], Minna Aurela[1], Anssi Järvinen[2], Jussi Hoivala[3], Sami Harni[1], Katariina Kylämäki[3], Hilkka Timonen[1], Päivi Aakko-Saksa[2], Topi Rönkkö[3]

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PO1: 45

Impact of Brake Pad Composition on Non-Exhaust Particle Emissions

Tawfiq Al-Wasif Ruiz, José Alberto Sánchez Martín, Carmen Cecilia Barrios Sánchez

Research Centre for Energy, Environment and Technology (CIEMAT), Avda. Complutense, 40, 28040 Madrid, Spain

PO1: 46

Size distributions and black carbon emissions from two comparable brake pads

Jussi Hoivala[1], Sanna Saarikoski[2], Minna Aurela[2], Kimmo Teinilä[2], Sami Harni[2], Katariina Kylämäki[1], Hilkka Timonen[2], Anssi Järvinen[3], Topi Rönkkö[1]

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PO1: 47

Characterisation and Tribological Performance of Brake Wear Emissions

Aleandro Diana[1,4], Silvia Comis[1,4], Stefano Bertinetti[1], Minghui Tu[2], Lucas Bard[2], Mery Malandrino[1,4], Agusti Sin[3,4], Ulf Olofsson[2]

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PO1: 48

The Effect of Collection Systems in TRWP Measurements: Impacts on Physical and Chemical Characterization

Melis Seren Celenlioglu[1], Roberta Vecchi[1], Sara Lucherini[1], Fabius Epple[2], Manuel Löber[3], Nina Reijrink[3], Sven Reiland[2], Franz Philipps[2]

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PO1: 49

Evaluating the Repeatability of Tire Wear Particle Measurements in a Novel Housing-Based Collection System

Melis Seren Celenlioglu[1], Roberta Vecchi[1], Sara Lucherini[1], Fabius Epple[2], Manuel Löber[3], Nina Reijrink[3], Sven Reiland[2], Franz Philipps[2]

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PO1: 50

High Time Resolution Quantification of PM2.5 Oxidative Potential and Reactive Oxygen Species

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International intercomparison of methodologies for measuring the oxidative potential of PM using ascorbic acid assay

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Particle Toxicity and its Drivers in India: from Regional to Local Spatial Scales

Shreya Dubey, Harish Phuleria

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Global Health Map: Coupling EMAC and KM-SUB-ELF to estimate air pollution health effects using accurate iron soluble fractions

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Thomas Audoux[1,2], Jean-Jacques Sauvain[3], Manuella Ghanem[2], Jean-Baptiste Lily[2], Esperanza Perdrix[1], Guillaume Suarez[3], Laurent Y. Alleman[1], Davy Rousset[2]

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Marco Rapuano[1], Matteo Rinaldi[1], Stefano Decesari[1], Marco Paglione[1], Tony Landi[1], Salvatore Sodano[1,4], Daniele Contini[2], Eva Merico[2], Daniela Cesari[2], Anna Abita[3], Lucia Basiricò[3], Nicolò Tirone[3], Paolo Bonasoni[1]
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Nuria Galindo
Miguel Hernández University of Elche, Spain

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Source apportionment of PM2.5 oxidative potential at urban and rural sites of the western Mediterranean basin

Álvaro Clemente María, Noelia Gómez Sánchez, Nuria Galindo Corral, Marina Alfosea Simón, José Francisco Nicolás Aguilera, Javier Crespo Mira, Eduardo Yubero Funes
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Stefanie Hartmann[1,2], Mehrzad Roudini[1,2], Uhland Weißker[1,2], Edwin Zschetzsche[2], Andreas Winkler[1,2]
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You-Yu Dong[1], Joy Thomas[2], Chang-Tang Chang[1]
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Alexander Plack, Alfred P. Weber
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Kirill Murashko, Muhammad Tanveer, Anna Lähde
University of Eastern Finland, Finland

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Ammar Kheder[1,2], Benjamin Foreback[2,3], Lili Wang[4], Zhi-Song Liu[1,2], Michael Boy[1,2,3]
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Effect of brake friction material on brake particle emissions

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Vladimíra Volná, Blanka Krejčí, Radim Seibert, Daniel Hladky
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Georgios Tsakonas[1], Rodopi Stamatiou[2], Kimmo Korhonen[3], Ukko-Ville Mäkinen[3], Petteri Marjanen[3], Pauli Simonen[3], Jorma Keskinen[3], Karine Elihn[4], Antigone Lazou[2], Zissis Samaras[1]
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Martine Van Poppel[1], Jan Peters[1], Sean Schmitz[2], Robert Wegener[3], Max Adam[3], Aki Pajunoja[4], Saskia Drossaert van Dusseldorp[5], Michael Pikridas[6], Joana Soares[7], Roberto Sanz Pozo[8], Kris Vanherle[9], Erika von Schneidemesser[2]
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Francesco Di Natale, Arianna Parisi
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Fresh exhaust particle emissions from modern passenger cars

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Hannu Kuutti[1], Päivi Aakko-Saksa[1], Michal Vojtíšek-Lom[2], Martin Pechout[3], Wojciech Honkisz[4], Piotr Bielaczyc[4], Katariina Kylämäki[5], Topi Rönkkö[5], Sanna Saarikoski[6], Hilkka Timonen[6]
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Amir Ali, Azajul Haque, Anjanay Pandey, Vikram Singh, Mayank Kumar
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Boris Vansevenant[1], Ashok Singh Vishnoi[1], Yassine Azizi[3], Emeric Borjon-Piron[3], Bernard Guiot[3], Fabrizio Cunzi[3], Antoine Rigault[3], Corinne Ferronato[2], Ludovic Fine[2], Patrick Tassel[1], Sophie Serindat[1], Yao Liu[1]
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Chitosan based crosslinked nanoparticles by coaxial electrospraying

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Spark Ablation Generation of Metal and TiO2 Nanoparticles for CO2 Hydrogenation

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CFD modeling of a perpendicularly oriented EHDA system in a pressurized lateral gas flow

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Droplet behavior and characteristics in high-flow rate electrospray processes

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Spreading aerosol nanoparticles through mobilizing substrates for wafer-scale nanoprinting

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Sustainable Aliphatic Polyketone/Nylon6 fibrous Membrane for Emulsion Separation

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Light absorption dynamics of wildfire-like BrC from wood combustion

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Condensable PM formation inside the masonry heater and in the emission gases

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3D-printed Filters for Particulate Emissions Reduction in Biomass Combustion

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Electro Hydrodynamic Fabricated Ecofriendly Polymers for PM0.1-0.5 Capture

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Field testing of air filters for efficiency of removal aerosol particles in an air handling unit

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A Detailed assessment of catalytic reduction of organic emissions from a wood stove using PTR-ToF-MS and FTIR

Muhammad Hamza Zaman[1], **Onni Ovaskainen**[2,3], **Anni Hartikainen**[2], **Pasi Yli-Pirilä**[2], **Tuukka Kokkola**[2], **Niko Kinnunen**[1], **Jarkko Tissari**[2], **Olli Sippula**[1,3]
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Mio Kitamura[1], **Kaho Hosaka**[1], **Akinori Zukeran**[1], **Yoshihiro Kawada**[2], **Riku Yamaguchi**[3], **Tasuku Hatakeyama**[3], **Sho Fujikura**[3], **Katuyuki Takahasi**[3], **Koichi Takaki**[3]
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Theresa Mathes[1], **Heather Guy**[2], **John Prytherch**[3], **Julia Kojoj**[4], **Ian Brooks**[2], **Sonja Murto**[3], **Paul Zieger**[4], **Birgit Wehner**[5], **Michael Tjernstrom**[3], **Andreas Held**[1]
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Evaluation of different sampling methodologies for the characterization of ice nucleating particle concentration using GRAINS, the new INP spectrometer at the AGORA Observatory

Elena Bazo[1,2], Gloria Titos[1,2], Olga Ruiz-Galera[1], Diego Patrón[1], Sonia Castillo[1], Alejandro Ontiveros[1], Juan Andrés Casquero-Vera[1,2], Francisco José Olmo[1,2], Lucas Alados-Arboledas[1,2], Alberto Cazorla[1,2]

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Intercomparison experiments of two INP spectrometers (INSEKT and GRAINS) at AIDAd chamber

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The Influence of Precipitation on Black Carbon Aerosols

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INP parameterization comparison: boundary layer vs free troposphere

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Atmospheric Aerosol Composition and Formation in an Alaskan Boreal Forest

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Atmospheric ions indicating continuous new particle formation in the Mediterranean coastal environment

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Composition of air ions during new particle formation events in Cyprus

Neha Deot, Mihai Ciobanu, Vijay Kanawade, Katrianne Lehtipalo, Tuija Jokinen
University of Helsinki and The Cyprus Institute, Finland

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Contribution of new particle formation events to cloud condensation nuclei concentrations at U.S. observatories

Ines Zabala[1,2], Andrea Casans[1,2], Juan Andrés Casquero-Vera[1,2], Gerardo Carrillo-Cardenas[3], Suqian Chu[4], Jingbo Mao[4], Fangqun Yu[4], Elisabeth Andrews[5,6], Anna Gannet Hallar[3], Gloria Titos[1,2]

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Methanesulfonic acid chemistry and new particle formation : a global model study

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Uncertainty Quantification of autoCONSTRAINTS derived Reaction Coefficients with MCMC

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Internally Mixed Aerosols in Urban Area of Katowice Conurbation (Poland)

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Secondary particle formation in the aqueous phase – Conversion of catechol in the presence of iron

Sabine Lüchtrath, Rico Wutke, Andreas Held

Technische Universität Berlin, Germany

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Sensitivity Analysis of a New Inorganic Multiphase Chemical Model

Zeqi Cui

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Towards automated inclusion of representative autoxidation chemistry in explicit models

Lauri Franzon[1], Richard Valorso[2], Bernard Aumont[2], Marie Camredon[2], Julia Lee-Taylor[3], John Orlando[3], Anni Savolainen[4], Siddharth Iyer[4], Matti Rissanen[1,4], Theo Kurtén[1]

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Implementation of a particle resuspension model in a Large Eddy Simulation code

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University of Evry Paris Saclay, France

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Influence of long-range transport over the sea on submicron aerosol chemical composition

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Optimizing Black Carbon emissions on a global scale using TM5-MP and CTDAS

Angelos Gkouvousis[1], Nikos Gialesakis[1,2], Alexios Drosos[1], Ioannis Maris[1], Maria Kanakidou[1,2,3]

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Simulating the Effect of Bark Beetle Infestation on Secondary Organic Aerosol (SOA) and Ozone

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An improved Europe-wide spatiotemporal machine learning modelling for PM2.5 using European open databases

Tetiana Vovk, Maciej Kryza
University of Wrocław, Poland

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Development and Evaluation of Coupled Climate Simulations Using Machine Learning Enhanced Aerosol Model

Hermanni Halonen[1], Eemeli Holopainen[2], Tommi Bergman[3], Anton Laakso[3], Tero Mielonen[3], Harri Kokkola[1,3]
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Numerical Simulation Analysis on SO2 and Sulfate Aerosol Source Apportionment in the Tibetan Plateau

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Spatial and temporal variability of ultrafine particle number concentrations and their link to air quality close to Munich airport in 2023

Shengyi Hou, Markus Friedrich, Anke Nölscher
University of Bayreuth, Germany

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Impacts of changes in land use and land cover between 2001 and 2018 in winter haze pollution in North China Plain and surrounding areas-A case study

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Composition, sources and formation process of atmospheric aerosol in marine atmosphere

Hao Li[1,2], Kan Huang[1], Congrui Deng[1], Harald Saathoff[2], Xuefeng Shi[2]
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A mass-spectrometric study of the formation and aging of organic aerosol from vanillin oxidation

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First study of the composition of cloud water collected at Monte Cimone observatory during the MC3 campaign in October 2024.

Pauline Nibert[1], Yi Wu[1,2], Marco Zanatta[3], Angela Marinoni[3], Muriel Joly[2], Pierre Amato[2], Paolo Cristofanelli[3], Francescopiero Calzolari[3], Marcello Brigante[2], Laurent Deguillaume[1,4], Angelica Bianco[1,4]
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Characterization of $PM_{2.5}$-Associated Dicarboxylic Acids and Sugars: Insights into Biomass Burning and Air Quality

Muskan Agarwal, Simran Bamola, Anita Lakhani
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Characteristics and levels of carbonaceous aerosols from real-time measurements during Diwali festivity

Vidit Suryakant Parkar, Abhishek Chakraborty
Indian Institute of Technology Bombay, India

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Emission factors of organic aerosols from a prescribed burning of European boreal forest

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Influence of the anthropic settlements on European Arctic climate in terms of Light-Absorbing Aerosol concentrations and Heating Rate

Niccolò Losi[1], Ferdinando Pasqualini[2], Alessandro Bracci[2], Fabio Giardi[3], Cosimo Fraticcioli[3], Marcus Acton-Bond[4], Piotr Markuszewski[5], Martin Rigler[6], Asta Gregoric[6], Vera Bernardoni[4], Luca Ferrero[1], Luca Di Liberto[2], Angelo Lupi[7], Giulia Calzolai[3]
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Tethered Balloon Observations of Vertical Aerosol Distributions at Neumayer III, Coastal Antarctica

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Airborne measurements of the spatial distribution and variability of ultrafine aerosol particles in Svalbard during melting season 2024

Malte Schuchard[1], Barbara Harm-Altstädter[1], Konrad Bärfuss[1], Sven Bollmann[1], Lutz Bretschneider[1], Matthew Boyer[2], Dominic Heslin-Rees[3], Mona Kellermann[4], Ralf Käthner[4], Radovan Krejci[3], Christian Pilz[4], Christoph Ritter[5], Andreas Schlerf[1], Birgit Wehner[4], Astrid Lampert[1]
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Condensation-freezing Ice Nucleating Particles at Ny-Ålesund: seasonality and sources investigated by the Dynamic Filter Processing Chamber

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Dust sources in Iceland: Insights from the High-Latitude Dust Experiment in 2021/2022

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High Gaseous Methanesulfonic Acid in Antarctic Air: Evidence of Evaporation from Particle Surfaces During Katabatic Outflows

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High spatial resolution measurements of the aerosol climate-relevant parameters from mid-latitudes to the Arctic, up to 90°N (GAIA)

Fabio Giardi[1], Cosimo Fratticioli[1,2], Vera Bernardoni[3], Marcus Acton-Bond[3], Marco Potenza[3], Luca Ferrero[4], Niccolò Losi[4], Luca Di Liberto[5], Ferdinando Pasqualini[5], Alessanfro Bracci[5], Spartaco Ciampichetti[5], Maurizio Busetto[5], Angelo Lupi[6], Piotr Markuszewski[7], Janna E. Rückert[8], Ingo Schewe[9], Giulia Calzolai[1]
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Source areas and effect on snow albedo of mineral aerosol deposition on snow in North Western Greenland

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Zooplankton grazing increases atmospheric primary aerosol production in the high Arctic

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Characterizing Particulate Matter Concentrations in Southern Iceland

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Pristine Antarctic Cloud Condensation (CCN) and Ice Nucleating Particle (INP) Concentrations and Properties at Neumayer Station III

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A molecular journey from the Baltic Sea to Svalbard: HRMS on organic aerosols collected on board the Oceania vessel

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Continental river runoff over the Arctic Ocean enhances atmospheric aerosol formation

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GAInfrA: A Versatile Mobile Laboratory for Aerosol, Clouds and Radiation Studies in Extreme Environments

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The T-Bird – A new aircraft-towed instrument platform to measure turbulence and aerosol properties close to the surface

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A Simple Surface-bulk Partitioning Model for Estimating Size-dependent Surface Tension of Deliquesced Aerosol Particles

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Cecilia Magnani[1,2], Marco Zanatta[1], Franziska Vogel[1], Laura Renzi[1], Martina Mazzini[1], Stefano Decesari[1], Paolo Cristofanelli[1], Andrea Gambaro[2], Angela Marinoni[1]

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Cloud droplet spectra measurements: comparison in low stratiform clouds

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Roland Schrödner[1], Susan Hartmann[1], Brandon Hassett[2], Markus Hartmann[1], Manuela van Pinxteren[1], Khanneh Wadinga Fomba[1], Frank Stratmann[1], Mira Pöhlker[1], Hartmut Herrmann[1], Sebastian Zeppenfeld[1]

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Can CCN activation of insoluble particles be predicted based on water adsorption measurements?

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CARGO-ACT – towards a global interoperability for aerosol, cloud and trace gas research infrastructures

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Cloud-Aerosol-Interactions in a Nitrogen-dominated Atmosphere (CAINA) – New particle formation, Activation, and Turbulence

Birgit Wehner[1], **Mona Kellermann**[1], **Manuel Lohoff**[1], **Hermann Winter**[1], **Christian Pilz**[1], **Mira Pöhlker**[1], **Ulrike Dusek**[2], **Holger Siebert**[1]
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Ice-nucleating particles at a background site in the southeast Tibetan Plateau

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Ice-nucleating properties of mineral dust particles from Taklimakan Desert

Zhaoze Deng[1], **Liang Ran**[1], **Yunfei Wu**[1], **Ping Tian**[2], **Mengyu Huang**[2]
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Co-located real-time bioaerosol monitoring and measurements of Ice Nucleating Particles (INP) at the rural background station Melpitz

Markus Hartmann, **Heike Wex**, **Susan Hartmann**
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Kunfeng Gao, **Zamin A. Kanji**
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Synergistic Observations of Aerosol-Cloud Interactions During Long-Range Transported Dust Events

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Does decreasing of sulphur concentration influence the amount of low clouds?

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The Czech hydrometeorological institute, Czech Republic

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Gurmanjot Singh[1], **Annele Virtanen**[1], **Harri Kokkola**[1,2], **Wei Xu**[3], **Jurgita Ovadnevaite**[3], **Darius Ceburnis**[3], **Chris Lunder**[4], **Wenche Aas**[4], **Markus Fiebig**[4], **Taina Yli-Juuti**[1]
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10 years of particle number size distribution in the urban supersite of Bologna in the Po Valley (Italy)

Arianna Trentini, **Dimitri Bacco**, **Fabiana Scotto**, **Vanes Poluzzi**
ARPAE, Italy

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Aare Luts, **Urmas Horrak**, **Kaupo Komsaare**, **Marko Vana**, **Heikki Junninen**
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Bi-directional vertical transport of cluster ions during new particle formation

Luzie Kretschmer, Andreas Held
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Diurnal cycle of new particle formation in the upper troposphere above the Amazon

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Myriam Agro'[1], Manuel Bettineschi[1], Silvia Melina[2], Juha Sulo[1], Katrianne Lehtipalo[1], Tuukka Petäjä[1], Ivan Grigioni[2], Giancarlo Ciarelli[1], Janne Lampilahti[1], Cristina Colombi[3], Beatrice Biffi[3], Angela Marinoni[4], Alessandro Bigi[5], Celestine Oliewo[5], Markku Kulmala[1], Federico Bianchi[1]
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New particle formation in urban background conditions in the Po valley

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Observations of atypical decreasing mode diameter events at a rural background site in Cyprus

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Differences of New Particle Formation in Seoul and Seosan, South Korea

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Estimation of particle growth rate using cross-correlation

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Humidity driven spontaneous OH radical-initiated oxidation of organic aerosols

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Nanami Emori, Masao Gen
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SOA precursor emissions in and above a forest consisting of beech and Douglas fir and their relation to aerosol particle numbers and composition

Xuefeng Shi, Hao Li, Yanxia Li, Aurélie Orphal, Uzoamaka Ezenobi, Thomas Leisner, Harald Saathoff
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Growth of coating thickness driving absorption enhancement in the urban city of Barcelona

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Impact of Agricultural Emissions on Rural and Urban Air Quality (IMAGE)

Vivien Corona Ramirez[1], David O'Connor[2], Stig Hellebust[3], Alan Gilmer[1], Vivienne Byers[1], Aoife Donnelly[1], Eoin McGillicuddy[1]
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Formation and Aging of Nitrogen-Containing Organic Aerosol

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PM10-bacterial infection interaction in A549 cells: A One Health perspective

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Analysis of PM2.5 concentrations in African countries: findings from 2019 to 2024

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Atmospheric particles, airborne bacteria and fungi at Akrotiri monitoring station (Crete, Greece)

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Impact of a bioethanol fireplace on indoor pollutant concentrations under different operating conditions

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PM10 source apportionment combining aerosol size and light absorption properties from high-time-resolution optical sensors: multi-year analysis, comparison with chemical speciation, and real-time implementation at an urban site in an Italian Alpine valley

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Effects of the hygroscopicity and mass scattering efficiency of secondary organic aerosols on light scattering

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Estimating the growth characteristics of commonly used pesticide (Glyphosate) aerosols

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Study and Identification of Benzene Emission Sources in a Complex Industrial Area in Taranto (Italy)

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Characterization and Source Apportionment of Ambient Air Particulate Matter (PM2.5) across Lagos, Nigeria using PMF

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Aerosols collection through dynamic fog aggregation: the case of asbestos

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PM in restaurant kitchen air - preliminary results

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Particulate matter in the selected fire station in Poland: concentration and size distribution

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Water- and methanol-extracted brown carbon in PM2.5 in southwest Europe

Noelia Gomez-Sanchez, Eduardo Yubero, Marina Alfosea-Simon, Álvaro Clemente, Laura Pastor, José Francisco Nicolás, Javier Crespo, Nuria Galindo
Miguel Hernández University, Spain

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Impact of smoking regime (ISO/HCI) on the emissions of PM and carbonyls of new tobacco products

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First results of airborne pollen grain observations in a coastal location in Crete, Greece

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A novel approach for spectral-based source apportionment of ambient aerosols: A demonstrative study

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Haajira Beevi Habeebrahuman[1], Youfen Qian[1], Vibhaw Shrivastava[1], Shamil Rafeeq[1], Emre Dikmen[2], Eda Sağırlı[3], Aşkın Birgül[4], Perihan Binnur Kurt Karakuş[4], Konstantina Oikonomou[5], Maria Tsagkaraki[6], Jean Sciare[5], Nikolaos Mihalopoulos[5,6,7], Fatma Ozturk[3], Naama Lang-Yona[1]
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Mostafa Taghipour, Hasan Yalcinoglu, Fiore Andrea, Jaap den Toonder, Hans Wyss
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Chiara Collaveri, Fiammetta Dini, Dennis Dalle Mura, Roberto Fruzzetti, Elisa Bini, Stefano Fortunato, Marina Rosato, Bianca Patrizia Andreini
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Eetu Naukkarinen, Antti Rostedt, Jorma Keskinen
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Marina Cerasa, Catia Balducci, Benedetta Giannelli Moneta, Silvia Mosca, Mattia Perilli, Marco Giusto, Tiziana Sargolini, Tommaso Rossi, Adriana Pietrodangelo

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Comparison of atmospheric PM10 measurements obtained by online and offline ED-XRF instrumentation.

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CFD simulation of non-exhaust particles dispersion in the wake flow of a passenger car

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Analysis of Aerosol Absorption Properties through an Integrated Experimental Approach during a Monitoring Campaign at a Central Mediterranean Site

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