Conference Agenda

Session

Poster Session Monday

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

Location: **Studium2000**

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

Presentations

ID: 869 / 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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ID: 356 / 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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ID: 307 / 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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ID: 559 / PO1: 4

Characterization of an event of heat wave and particulate matter increase in Bologna

Andrea Faggi[1], Erika Brattich[1], Tiziano Maestri[1], Laura Tositti[2], Alessandro Zappi[2]

[1]Department of Physics and Astronomy "Augusto Righi", Alma Mater Studiorum - Università di Bologna, Bologna, 40120, Italy; [2]Department of Chemistry "Giacomo Ciamician", Alma Mater Studiorum - Università di Bologna, Bologna, 40120, Italy

ID: 1171 / 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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ID: 1174 / 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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ID: 828 / 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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Rome Tor Vergata, Via della Ricerca Scientifica 1, 00133 Rome, Italy

ID: 977 / 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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ID: 781 / 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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ID: 551 / 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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ID: 1172 / PO1: 11

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

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ID: 760 / 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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ID: 1091 / 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]

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ID: 1178 / 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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ID: 334 / 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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ID: 856 / 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

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ID: 619 / PO1: 17

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

Yinon Rudich

Weizmann Institute, Israel

ID: 867 / 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]

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ID: 501 / 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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ID: 1028 / 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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ID: 516 / 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]

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ID: 346 / 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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ID: 1187 / 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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ID: 939 / 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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ID: 595 / 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]

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ID: 771 / 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]
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ID: 766 / 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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ID: 700 / PO1: 28

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

Maike Stange[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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ID: 1106 / 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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ID: 359 / 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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ID: 428 / PO1: 31

Airborne Nanoplastic Exposure Platform: From In-vitro to In-vivo

Yen Thi-Hoang Le, Hanjin Yoo, Ki-Joon Jeon
Inha University, Korea, Republic of (South Korea)

ID: 1031 / PO1: 32

Atmospheric microplastics modelling and quantification using Gibbs sampler

Ondřej Tichý[1], Nikolaos Evangeliou[2], Václav Košík[1], Václav Smidl[1]
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ID: 864 / PO1: 33

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

ID: 656 / PO1: 34

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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ID: 727 / PO1: 35

Characterization of microplastics in the air and evaluation of the cytotoxicity of two plastics and additives on A549 alveolar cells and RPMI 2650 nasal cells

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ID: 324 / PO1: 36

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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ID: 239 / PO1: 37

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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ID: 374 / PO1: 38

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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ID: 330 / PO1: 39

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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ID: 1037 / PO1: 40

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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ID: 1075 / PO1: 41

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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ID: 1087 / PO1: 42

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

ID: 290 / PO1: 43

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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ID: 299 / PO1: 44

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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ID: 849 / PO1: 45

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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ID: 838 / PO1: 46

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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ID: 793 / PO1: 47

Impact of Brake Pad Composition on Non-Exhaust Particle Emissions

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ID: 622 / PO1: 48

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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ID: 302 / PO1: 49

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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ID: 151 / PO1: 50

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

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ID: 152 / PO1: 51

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

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ID: 946 / PO1: 52

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

Steven J. Campbell[1], Gang Chen[1], Alexandre Barth[2], Philip B. Punter[1,3], Anja H. Tremper[1], Max Priestman[1], Markus Kalberer[2], David C. Green[1,3]
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ID: 943 / PO1: 53

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

Anouk Marsal[1], Gaëlle Uzu[1], Pamela A. Dominutti[1], Cécile Tassel[1], Stephan Houdier[1], Jean-Luc Jaffrezo[1], Fabrizia Cavalli[2], Jean-Philippe Putaud[2], Ian S Mudway[3], Athanasios Nenes[4,5], Aikaterini Bougiatioti[6], Despina Paraskevopoulou[6], Nikolaos Mihalopoulos[6], Xavier Querol[7], Gerard Hoek[8], Roy M. Harrison[9]
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ID: 776 / PO1: 54

Oxidative potential of fine aerosols in sleeping micro-environments: a one-year study in Lisbon area dwellings

Sara Gonçalves[1,2], Carla Gamelas[2,3], Sergio Mendez[2], Joana Belo[1], Joana Lage[2,4], Susana Marta Almeida[2], Sandra Cabo Verde[2], Nuno Canha[2,5]
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ID: 578 / PO1: 55

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

Shreya Dubey, Harish Phuleria
Indian Institute of Technology Bombay, India

ID: 708 / PO1: 56

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

Matteo Krüger[1], Klaus Klingmüller[1], Simon Rosanka[2], Johannes Lelieveld[1], Ulrich Pöschl[1], Andrea Pozzer[1], Thomas Berkemeier[1]
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ID: 119 / PO1: 57

Real-Time Oxidative Potential Monitoring: Performance of DTT and FOX-Based Systems

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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ID: 282 / PO1: 58

Characterization of PM2.5 and its oxidative potential in three regions of the South Italy

Daniela Cesari[1], Caterina Mapelli[1], Adelaide Dinoi[1], Daniela Chirizzi[2], Antonio Pennetta[1], Giuseppe Deluca[1], Daniele Contini[1]

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ID: 780 / PO1: 59

Investigating PM2.5 Toxicity: The Initial Comprehensive OP Study in Australia Utilising Various Acellular Assays

Saima Iram[1], Rosemary Fedele[2], Svetlana Stevanovic[1]

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ID: 785 / PO1: 60

Buildings located in valley cities : An original study for the characterization of the human exposure to the infiltrated outdoor air with measurements of oxidative potential

Diana Decilap[1,3], Benjamin Golly[1], Jean-Luc Besombes[2], Gaëlle Guyot[3], Albane Barbero[1,4], Jean-Luc Jaffrezo[4], Gaëlle Uzu[4]

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ID: 316 / PO1: 61

Chemical characterization and Oxidative Potential of fine particulate matter from rural, urban and industrial sites in Sicily within the NOSE 2 project

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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ID: 123 / PO1: 62

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

Nuria Galindo

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ID: 1129 / PO1: 63

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

Miguel Hernández University, Spain

ID: 163 / PO1: 64

Differences in oxidative potential between rural and urban locations in the Netherlands and related source attributions for PM10

Marloes Fleur van Os[1], Johannes Cornelis Esveld[1], Baye Toulaye Pehan Thera[1], Floris Pekel[1], Anouk Marsal[2], Gaëlle Uzu[2]

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ID: 190 / PO1: 65

Field deployment of simultaneous particulate mass and DTT consumption monitoring system for coarse PM and PM2.5

Hiroyuki Hagino[1], Masaki Ohata[2], Chikako Cheong[2], Yuji Fujitani[3], Mizuo Kajino[4]

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ID: 936 / PO1: 66

Next-Gen Aerosol Tech: SAW-based Aerosol Sources for Industrial Applications

Stefanie Hartmann[1,2], Mehrzad Roudini[1,2], Uhland Weißker[1,2], Edwin Zschetzsche[2], Andreas Winkler[1,2]

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ID: 336 / PO1: 67

Exploring Nanostructured Permalloy Particles Prepared by Aerosol Process for Power Converter component in Electronics

Eka Lutfi Septiani, Takashi Ogi

Hiroshima University, Japan

ID: 615 / PO1: 68

Direct Synthesis of Silica-coated Iron (Fe@SiO2) Particles Using an Aerosol Process

Delyana Ratnasari, Eka Lutfi Septiani, Takashi Ogi
Hiroshima University, Japan

ID: 1183 / PO1: 69

Light patterns for colorizations

Bingyan Liu, Jicheng Feng
School of Physical Science and Technology, ShanghaiTech University, Shanghai, 201210, China

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ID: 859 / PO1: 70

An Endoscope-sized Acoustofluidic Aerosol Generator for Minimally Invasive Medicine and Technical Applications

Andreas Winkler, Andreas Büst, Mehrzad Roudini, Steve Wohlrab
Leibniz IFW Dresden, Germany

ID: 1184 / PO1: 71

Faraday lithography

Yuxiang Yin, Bingyan Liu, Jicheng Feng
shanghaitech University, China, People's Republic of

ID: 593 / PO1: 72

Removal of Sulfur Compounds from Pyrolysis Oil using Cu-MOF Beads

You-Yu Dong[1], Joy Thomas[2], Chang-Tang Chang[1]
[1]National Ilan University, Taiwan; [2]National Taiwan University, Taiwan

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ID: 848 / PO1: 73

Strategy for the synthesis of size-controlled oxide-free copper nanoparticles and their reactivity

Hideki Tanaka
Chuo University, Japan

ID: 419 / PO1: 74

Synthesis of TWC Aggregated and Porous Particles via Spray Drying Method: Catalytic Performance and Internal Structure Analysis

Ai Ando
Hiroshima University, Japan

ID: 676 / PO1: 75

MOF induced Perovskite for Cleaner Energy Production

Yi-Hsuan Tsai[1], Joy Thomas[2], Chang-Tang Chang[1]
[1]National Ilan University, Taiwan; [2]National Taiwan University, Taiwan

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ID: 115 / PO1: 76

Process Optimization for Repeated CO2 Capture Using Porous MgO adsorbents

Yeryeong Kang[1], Sukbyung Chae[2], Euntae Yang[3], Changhyuk Kim[1]
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ID: 1123 / PO1: 77

Electrophoretic assisted flame synthesis of hydrophilic carbon nanoparticles film

Raffaella Griffo[1], Arianna Parisi[2], Mario Minale[1], Francesco Di Natale[2], Claudia Carotenuto[1]
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ID: 1162 / PO1: 78

Template-free synthesis of porous metal nitride films from combustion aerosols

Adrien Baut, Michael Pereira Martins, Andreas Thomas Güntner
ETH Zuerich, Switzerland

ID: 933 / PO1: 79

Effect of the Oxidation State of Copper Nanoparticles on Their Interfacial Interaction with Metallic Substrates

Alexander Plack, Alfred P. Weber
Insitute of Particle Technology - Clausthal University of Technology, Germany

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ID: 770 / PO1: 80

Electrochemical Sensor for Detection of Oxytetracycline Using ZnO-Modified Carboxylate Multi-Walled Carbon Nanotubes on Glassy Carbon Electrode

Yu -Ting Tsai, Chang-tang Chang
National Ilan University, Taiwan

ID: 580 / PO1: 81

Multifunctional and Eco-Friendly EDTA/PEI Aerogels for the Removal of Cu(II) from Aqueous Solutions

Siao Jyun Hu[1], Joy Thomas[2], Chang Tang Chang[1]
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ID: 545 / PO1: 82

Synthesis of TiO2 nanoparticle and rGO composite material by flame spray pyrolysis for Li-Sulfur battery cathode creation.

Kirill Murashko, Muhammad Tanveer, Anna Lähde
University of Eastern Finland, Finland

ID: 572 / PO1: 83

Deep Spatio-Temporal Neural Network for Air Quality Reanalysis

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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ID: 777 / PO1: 84

Effect of brake friction material on brake particle emissions

Christophe Bressot[1], MARIE HOFF[2], YANMING CHEN[3], MARTIN MORGENEYER[4]
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ID: 544 / PO1: 85

Real-Time Characterization of PAH Derivatives in Bitumen Fume Emissions

Maria Bou Saad[1], Brice Temime-Roussel[1], Vincent Gaudefroy[2], Jean-Philippe Terrier[2], Olivier Burban[2], Audrey Pevere[3], Thierry Orsière[4], Henri Wortham[1], Pierre Doumenq[1]
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ID: 427 / PO1: 86

A Study on the Distribution Characteristics of Particulate Matter Emissions in Industrial Complex Areas Using Scanning LiDAR

Gahye Lee[1], Seong-min Kim[1], Jeong-Min Park[1], kyoungho Kim[2], Youndae Jung[2], Ilkwon Yang[2], Sungchul Choi[3], Changgi Choi[3], Sang Cheol Kim[4], Kwanchul Kim[1]
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ID: 194 / PO1: 87

Evaluation of different causes of air pollution in the Central European Region

Vladimíra Volná, Blanka Krejčí, Radim Seibert, Daniel Hladky
Czech Hydrometeorological Institute, Czech Republic

ID: 630 / PO1: 88

Monitoring of radioactive aerosols by two-layer filters in the premises air on low levels of the Shelter Object inside the New Safe Confinement

Oleksandr Kalynovskyi
Institute for Safety Problems of Nuclear Power Plants of NAS of Ukraine, Ukraine

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ID: 636 / PO1: 89

Effects of exhaust dilution parameters on characteristics of semi-volatile aerosol emissions from a gasoline internal combustion engine

Hugh Davies[1], Soheil Zeraati Rezaei[1], James Brean[2], Nategheh Najafpour[1], Jose M. Herreros[1], Mohammed S. Alam[3], Athanasios Tsolakis[1], Roy M. Harrison[2]
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ID: 587 / PO1: 90

Exploring the Formation and Toxicity of Secondary Particles in Gasoline Vehicle Emissions

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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ID: 703 / PO1: 91

High secondary aerosol formation from motorcycle exhaust

Pauli Simonen[1], Atte Ojala[1], Giorgos Triantafyllopoulos[2], Dimos Melachrous[3], Ukko-Ville Mäkinen[1], Kuisma Vesisenaho[1], Petteri Marjanen[1], Ville Leinonen[1], Thanasis Tziovas[2], Dimitris Katsaounis[3], Leonidas Ntziachristos[3], Panu Karjalainen[1]

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ID: 1052 / PO1: 92

The positive impact of burning sustainable aviation fuel on reducing non-volatile particle emissions

Louise Ganeau[1], Ismael K. Ortega[1], Alaric Vandestoc[1], Antoine Berthier[1], Yanis Melliti[1], Mickaël Sicard[1], Frederic Ollivier[2], Marc Delcourt[2]

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ID: 746 / PO1: 93

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

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ID: 773 / PO1: 94

Effect of fuel composition to particles emitted from auxiliary heaters of cars

Henri Oikarinen[1], Anni Hartikainen[2], Pauli Simonen[3], Karolina Klemi[1], Laura Ala-Hakuni[3], Santtu Mikkonen[1,2], Panu Karjalainen[3,4]

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ID: 614 / PO1: 95

Experimental Investigation of Particle Loss from Sampling Tube Surface Roughness, Tube Coiling, Flow Splitters, and Tube Fittings in Aviation nvPM Sampling Systems

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ID: 280 / PO1: 96

Roadside emission factors of emerging and unregulated pollutants

Lauri Savolainen[1], Teemu Lepistö[1], Heidi Hellén[2], Henna Lintusaari[1], Milja Jäppi[1], Jarkko V. Niemi[3], Markus Lampimäki[4], Janne Lampilahti[4], Katrianne Lehtipalo[4], Tuukka Petäjä[4], Hilkka Timonen[2], Topi Rönkkö[1]

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ID: 966 / PO1: 97

Real-time monitoring of transport-related air and noise pollution in European cities (Net4Cities): Monitoring plan and approach

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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ID: 858 / PO1: 98

Exploring Particle Dynamics: Preliminary Investigations in Wear Particle Measurement for Tire and Road Surfaces

Danilo Engelmann[2], Volker Ziegler[1], Martin Schmidt[1], Markus Barth[1]

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ID: 792 / PO1: 99

Particulate emissions from vehicles: a detailed characterization of fine and ultrafine fractions

Christian Ferrarese[1,2], Sara Valentini[2], Dora Mehn[2], Jessica Ponti[2], Gabriella Schirinzi[2], Andrea Valsesia[2], Natalia Elisabeth Fonseca González[1], Dario Manara[2]

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ID: 1058 / PO1: 100

Emissions of particulate matter and pollution control technologies for marine engines operated with green fuels

Francesco Di Natale, Arianna Parisi

University of Naples Federico II, Italy

ID: 406 / PO1: 101

Evaluation of Emissions in a Lab-scale Turbojet Engine Using Fossil and Sustainable Aviation Fuels

Enrique Rojas[1], David Sanz[1], Jesús Javier Rodríguez[1], Manuel Pujadas Cordero[1], Rosa María Pérez Pastor[1], Susana García Alonso[1], José Antonio Soriano García[2], Pablo Fernández Yañez[2], Reyes García Contreras[2], Octavio Armas Vergel[2]

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ID: 960 / PO1: 102

Ultrafine Particulate Emissions from the Transport Sector: First results from the Net4Cities project

Archita Rana[1], Robert Wegener[1], Max Gerrit Adam[1], René Dubus[1], Lukas Kesper[1], Dieter Klemp[1], Sean Schmitz[2], Martine van Poppel[3], Aki Pajunoja[4], Saskia Drossaart van Dusseldorp[5], Michael Pikridas[6], Erika von Schneidemesser[2]
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ID: 283 / PO1: 103

Fresh exhaust particle emissions from modern passenger cars

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ID: 961 / PO1: 104

Portable FTIRs' capability to measure secondary aerosol precursors from vehicle exhaust

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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ID: 715 / PO1: 105

Influence of Fuel Standards on Vehicular Emissions: Assessing the Impact of Bharat Stage Regulations in Urban Idling Conditions

Amir Ali, Azajul Haque, Anjanay Pandey, Vikram Singh, Mayank Kumar
Indian Institute of Technology Delhi, India

ID: 291 / PO1: 106

Motor vehicle exhaust ultrafine particle number (PN) concentration monitor and calibration technology

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ID: 186 / PO1: 107

Regulated and unregulated pollutants emitted by an inland waterway ship – comparison of traditional fuel with two alternative fuels.

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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ID: 1092 / PO1: 108

Chitosan based crosslinked nanoparticles by coaxial electrospraying

Yaride Pérez-Pacheco[1], Eszter Bodnár[1], Ricard Garcia-Valls[1], Joan Rosell-Llompart[1,2]
[1]University Rovira i Virgili, Spain; [2]Catalan Institution for Research and Advanced Studies, Spain

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ID: 1079 / PO1: 109

Finite Taylor Cone: the impact of the electrospray

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ID: 413 / PO1: 110

Spark Ablation Generation of Metal and TiO2 Nanoparticles for CO2 Hydrogenation

Benjamin Gfeller[1], Mariia Becker[1], Marcus Wyss[2], Nicolas Bukowiecki[1], Markus Kalberer[1]
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ID: 164 / PO1: 111

Combined Reduction of NOx and PM Emissions from Small-scale Biomass Combustion with Electrostatic Precipitation

Alexandr Molčanov, Kamil Krpec

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ID: 1026 / PO1: 112

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

Kelly Schneider Moreira[1], Leon Schmittgens[2], Ignacio González Loscertales[3], Luewton Lemos F Agostinho[4]

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ID: 701 / PO1: 113

Droplet behavior and characteristics in high-flow rate electrospray processes

Joon Yub Kim[1], Myong-Hwa Lee[1,2]

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ID: 1182 / PO1: 114

Spreading aerosol nanoparticles through mobilizing substrates for wafer-scale nanoprinting

Shirong Liu, JiCheng Feng

Shanghaitech University, China, People's Republic of

ID: 679 / PO1: 115

Sustainable Aliphatic Polyketone/Nylon6 fibrous Membrane for Emulsion Separation

Hsiang-Chieh Chiu[1], Joy Thomas[2], Chang-Tang Chang[1]

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ID: 1011 / PO1: 116

Volatile organic compounds emission factors for boreal forest surface fires in laboratory experiments

Markus Jere Oskari Somero[1], Angela Buchholz[2], Mika Ihalainen[1], Pasi Yli-Pirilä[1], Anni Hartikainen[1], Iida Pullinen[2], Kajar Köster[1], M. Hamza Zaman[5], Ville Vakkari[3,4], Lejish Vettikkat[2], Aki Virkkula[3], Annele Virtanen[2], Olli Sippula[1,5]

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ID: 875 / PO1: 117

Light absorption dynamics of wildfire-like BrC from wood combustion

Constantinos Moularas[1,2], Irini Tsiodra[3], Nikos Mihalopoulos[3,4], Philip Demokritou[1], Georgios A. Kelesidis[1,2]

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ID: 1150 / PO1: 118

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

Marek Maasikmets, Erik Teinemaa, Keio Vainumäe, Magnar Vainumäe

Estonian Environmental Research Centre, Estonia

ID: 626 / PO1: 119

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

Oday Hakami[1], Daniel Wilson[2], Fergus Lidstone-Lane[2], Arthur Garforth[1], Amanda Lea-Langton[2]

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ID: 604 / PO1: 120

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

Ya Ying Wu[1], Joy Thomas[2], Chang Tang Chang[1]

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ID: 199 / PO1: 121

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

Tomasz Jankowski

CIOP-PIB, Poland

ID: 877 / PO1: 122

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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ID: 687 / PO1: 123

Analysis of pressure drops and dust-holding capacities of nano-micro composite filters during dust loading

Min-Seon Kwon, Myong-Hwa Lee
Kangwon National University, Korea, Republic of (South Korea)

ID: 197 / PO1: 124

Development of a High Electric Field Type Electrostatic Precipitator with High Gas Velocity for Diesel Exhaust Particles

Hayato Ito[1], Takumi Kojima[1], Koji Yasumoto[1], Akinori Zukeran[1], Yoshiyasu Ehara[2]
[1]Kanagawa Institute of Technology, Japan; [2]Tokyo City University

ID: 251 / PO1: 125

Effect of reputation frequancy on suspended particle trajectory in nanosecond pulsed discharge with DC bias

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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ID: 686 / PO1: 126

Application of granular bed theory to predict the filtration performance of porous filters

Jae-Hyun Park, Myong-Hwa Lee
Kangwon National University, Korea, Republic of (South Korea)

ID: 878 / PO1: 127

Atmospheric Particle Fluxes in the High Arctic Across Three Surface Types

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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ID: 953 / PO1: 128

Characterisation of Physical and Optical properties of Arctic Dust Aerosols at Villum station

Zihui Teng[1], Lu Zhang[2], Andreas Massling[2], Henrik Skov[2], Merete Bilde[1], Bernadette Rosati[1,3]
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ID: 638 / PO1: 129

Investigating the Impact of heating on Semi-Volatile Organic Species in Cloud Condensation Nuclei Counter

Mayur Gajanan Sapkal[1], Shravan Deshmukh[2], Jian Xu[3], Junteng Wu[4], Anne Monod[3], mathieu cazaunau[5], Edouard Pangui[5], Silvia Henning[2], Brice temime-roussel[3], Judith Kleinheins[1], Claudia Marcolli[1], Jim Grisillon[3], Bénédicte Bénédicte Picquet-Varrault[5], Luo Beiping[1], Zamin Kanji[1]
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ID: 512 / PO1: 130

Chemical characterization of fogs in the hyper arid zone of Namibia

Agathe Gérardin[1], Jim Grisillon[1], Pierre Amato[2], Servanne Chevaillier[3], Karine Desboeufs[3], Amandine Durand[1], Gaël Durrieu[4], Khanneh Wadinga Fomba[5], Juan Miguel Gonzalez Sanchez[1], Brigitte Language[6], Frederic Mathonat[2], Gaël Noyalet[3], Benjamin Oursel[4], Stuart Piketh[6], Sylvain Triquet[3], Daniel Tetteh Quaye[5], Paola Formenti[1], Fabien Robert-Peillard[3], Anne Monod[1]
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ID: 129 / PO1: 131

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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ID: 292 / PO1: 132

The Influence of Precipitation on Black Carbon Aerosols

Kajal Julaha[1,2], Joseph Durat[1], Vladimir Zdimal[1], Nadezda Zikova[1]

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ID: 433 / PO1: 133

INP parameterization comparison: boundary layer vs free troposphere

Joseph, Jean-Marcel Durat[1,2], Jakub Ondracek[1], Vladimir Zdimal[1], Naděžda Zíková[1]

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ID: 1086 / PO1: 134

Atmospheric Aerosol Composition and Formation in an Alaskan Boreal Forest

Steven Job Thomas[1], James Campbell[2], Wang Congrong[2], Federico Bianchi[1], Jingqiu Mao[2]

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ID: 590 / PO1: 135

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

Spyridon Emmanouil Markoulakis[1], Nikos Kalivitis[1], Panagiotis Kalkavouras[2,3], Veli-Matti Kerminen[4], Markku Kulmala[4], Maria Kanakidou[1,5,6]

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ID: 298 / PO1: 136

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

ID: 272 / PO1: 137

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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ID: 597 / PO1: 138

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

Samuel Ruhl[1], Matthias Kohl[1], Rolf Sander[1], Christos Xenofontos[2], Rima Baalbaki[2], Theodoros Christoudias[2], Jos Lelieveld[1,2], Andrea Pozzer[1,2]

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ID: 320 / PO1: 139

Uncertainty Quantification of autoCONSTRAINTS derived Reaction Coefficients with MCMC

Valery Ntui Ashu[1,2,3], Heikki Haario[1,2], Lukas Pichelstorfer[2,4], Michael Boy[1,2,3]

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ID: 993 / PO1: 140

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

Tetiana G. Kalinichenko[1,2], Mariola B. Jabłońska[1,2]

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ID: 885 / PO1: 141

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

ID: 664 / PO1: 142

Sensitivity Analysis of a New Inorganic Multiphase Chemical Model

Zeqi Cui

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ID: 173 / PO1: 143

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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ID: 997 / PO1: 144

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

Victor Bourgin, **Mohamed Sellam**, **Amir Feiz**
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ID: 233 / PO1: 145

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

Agne Minderyte[1], **Julija Pauraite**[1], **Erik Ahlberg**[2], **Adam Kristensson**[2], **Steigvilė Byčenkienė**[1], **Axel Eriksson**[2]
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ID: 850 / PO1: 146

Towards an improved historical emission dataset for modelling air quality in urban areas during the industrialization

Clara Seidel[1], **Roland Schrödner**[1], **Ina Tegen**[1], **Anna Hanitzsch**[2]
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ID: 995 / PO1: 147

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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ID: 852 / PO1: 148

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

Jana Wackermann, **Marie Luise Luttkus**, **Roland Schrödner**, **Ralf Wolke**
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ID: 397 / PO1: 149

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

Tetiana Vovk, **Maciej Kryza**
University of Wrocław, Poland

ID: 460 / PO1: 150

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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ID: 376 / PO1: 151

Numerical Simulation Analysis on SO2 and Sulfate Aerosol Source Apportionment in the Tibetan Plateau

YuXuan Lu, **Guohui Li**, **JiaRui Wu**, **Xia Li**
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ID: 480 / PO1: 152

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

ID: 1199 / PO1: 153

Assessment of Aerosol Optical Properties and Dipole Nature of Aerosol Induced Radiative Forcing for Shortwave and Longwave over Northwest India

Prity S. Pippal[1], **Rajesh Kumar**[2]
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ID: 588 / PO1: 154

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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ID: 140 / PO1: 155

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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ID: 262 / PO1: 156

A mass-spectrometric study of the formation and aging of organic aerosol from vanillin oxidation

Julia David[1], Anna Breuninger[1], Franziska Köllner[2,3], Oliver Eppers[2], Oliver Appel[2,3], Jonas Wilsch[2], Fatih Ekinci[2,3], David Wasserzier[4], Stefanie Hildmann[4], Luca D'Angelo[1], Mario Simon[1], Jialiang Ma[1], Thorsten Hoffmann[4], Johannes Schneider[2], Alexander Vogel[1]

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ID: 179 / PO1: 157

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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ID: 1147 / PO1: 158

Characterization of $PM_{2.5}$-Associated Dicarboxylic Acids and Sugars: Insights into Biomass Burning and Air Quality

Muskan Agarwal, Simran Bamola, Anita Lakhani

Dayalbagh Educational Institute, India

ID: 1144 / PO1: 159

Characteristics and levels of carbonaceous aerosols from real-time measurements during Diwali festivity

Vidit Suryakant Parkar, Abhishek Chakraborty

Indian Institute of Technology Bombay, India

ID: 868 / PO1: 160

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

Snehitha Manaswini Kommula[1], Liqing Hao[1], Angela Buchholz[1], Tuukka Kokkola[2], Iida Pullinen[1], Mika Ihalainen[2], Saara Peltokorpi[1], Arttu Ylisirniö[1], Ville Vakkari[3], Olli Sippula[2], Annele Virtanen[2]

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ID: 650 / PO1: 161

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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ID: 796 / PO1: 162

Tethered Balloon Observations of Vertical Aerosol Distributions at Neumayer III, Coastal Antarctica

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ID: 547 / PO1: 163

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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ID: 183 / PO1: 164

Condensation-freezing Ice Nucleating Particles at Ny-Ålesund: seasonality and sources investigated by the Dynamic Filter Processing Chamber

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ID: 275 / PO1: 165

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

Kerstin Schepanski[1], Konrad Kandler[2], Mara Montag[2], Kilian Schneiders[2], Pascal Kunze[3], Agnesh Panta[2], Adolfo González-Romero[4], Cristina González-Flórez[4,5], Martina Klose[6], Xavier Querol[7], Andres Alastuey[7], Jesus Yus-Díez[8], Sylvain Dupont[9], Pavla Dagsson-Waldhauserová[10,11], Carlos Pérez García-Pando[4,12]

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ID: 696 / PO1: 166

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

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ID: 1008 / PO1: 167

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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ID: 754 / PO1: 168

Source areas and effect on snow albedo of mineral aerosol deposition on snow in North Western Greenland

Silvia Becagli[1], Filippo Calì Quaglia[2], Virginia Ciardini[3], Annalisa Di Bernardino[4], Tatiana Di Iorio[3], Alcide di Sarra[3], Jose-Louis Gomez Amo[5], Konrad Kandler[6], Daniela Meloni[3], Giovanni Muscari[2], Mirko Severi[1], Monica Tosco[2], Rita Traversi[1]

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ID: 865 / PO1: 169

Zooplankton grazing increases atmospheric primary aerosol production in the high Arctic

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ID: 888 / PO1: 170

Characterizing Particulate Matter Concentrations in Southern Iceland

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ID: 841 / PO1: 171

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

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ID: 415 / PO1: 172

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

Luca D'Angelo[1,2], Niccolò Losi[3], A.E Spazzini[3], Vera Bernardoni[4], Marcus Acton-Bond[4], C Fratticioli[5,6], Giulia Calzolai[6], Fabio Giardi[6], P Markuszewski[7], Luca Di Liberto[8], Ferdinando Pasqualini[8], Alexander Lucas Vogel[1], Luca Ferrero[3]

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ID: 980 / PO1: 173

Black carbon in the Arctic (Ny-Ålesund): An Assessment Comparing AE33 and LIDAR Data

Sofia Cerri[1,2], Christoph Ritter[5], Marion Maturilli[5], Niccolò Losi[2], Stefania Gilardoni[3], Mauro Mazzola[4], Andrea Doldi[2], Ezio Bolzacchini[2], Luca Ferrero[2]

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ID: 844 / PO1: 174

Chemical Composition of Size-Segregated Aerosols During Second Turkish Artic Scientific Expedition (TASE-II)

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ID: 821 / PO1: 175

Continental river runoff over the Arctic Ocean enhances atmospheric aerosol formation

James Brean[1], Cedric Fichot[2], David Beddows[1], Douglas Worsnop[3,4], Zongbo Shi[1], Roy Harrison[1], Eija Asmi[5], Manuel Dallosto[6]

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ID: 990 / PO1: 176

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

Ferdinando Pasqualini[1], Alessandro Bracci[1], Spartaco Ciampichetti[1], Maurizio Busetto[1], Marcus Acton-Bond[2], Vera Bernardoni[2], Luca Ferrero[3], Niccolò Losi[3], Angelo Lupi[4], Janna.E Rückert[5], Ingo Schewe[6], Cosimo Fratticioli[7,8], Fabio Giardi[8], Giulia Calzolai[8], Luca Di Liberto[1]

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ID: 996 / PO1: 177

Long-term Trends of Key Chemical Species in the High Arctic and Possible Drivers

Lu Zhang[1,2], Henrik Skov[1,2], Massling Andi[1,2], Haochi Che[3], Frederik Bælum Hildebrand[1,2], Varun Kumar[1,2], Jacob Nis Klenø Nøjgaard[4,5]

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ID: 926 / PO1: 178

Preliminary Results from the CleanCloud Campain in Greenland – Villum Research Station

Romanos Foskinis[1,2,3], Marilena Gidarakou[3], Anne-Claire Marie Billault-Roux[2], Varun Kumar[4], Lise Lotte Sørensen[4], Bjarne Jensen[4], Christel Christoffersen[4], Silvia Henning[5], Sven-Erik Gryning[6], Andreas Massling[4], Henrik Skov[4], Ulas Im[4], Alexandros Papayannis[3], Alexis Berne[2], Athanasios Nenes[1]

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ID: 155 / PO1: 179

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

Zsófia Jurányi[1], Laura Köhler[1], Christof Lüpkes[1], Frank Stratmann[2], Jörg Hartmann[1], Jonas Schaefer[2], Bruno Wetzel[2], Anna-Marie Jörss[1], Alexander Schulz[1], David Simon[2], Andreas Herber[1]

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ID: 1000 / PO1: 180

Validation of methods for simulating aerosol samples from remote dust sources using a resuspension chamber

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ID: 425 / PO1: 181

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

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ID: 491 / PO1: 182

Cloud Condensation Nuclei properties and variability at Mt. Cimone station

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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ID: 959 / PO1: 183

Cloud droplet spectra measurements: comparison in low stratiform clouds

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ID: 568 / PO1: 184

Polysaccharides - Important Constituents of Ice Nucleating Particles of Marine Origin

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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ID: 876 / PO1: 185

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

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ID: 191 / PO1: 186

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

Mikhail Paramonov[1], Honey Alas[2], Alfred Wiedensohler[2], Doina Nicolae[3], Ellsworth J. Welton[4], Elisabeth Andrews[5,6], Ewan O'Connor[7]

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ID: 892 / PO1: 187

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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ID: 497 / PO1: 188

Ice-nucleating particles at a background site in the southeast Tibetan Plateau

Liang Ran[1], Zhaoze Deng[1], Ping Tian[2], Mengyu Huang[2], Yunfei Wu[1], Jianchun Bian[1]

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ID: 954 / PO1: 189

Ice-nucleating properties of mineral dust particles from Taklimakan Desert

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ID: 1067 / PO1: 190

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
Leibniz-Institute for Tropospheric Research (TROPOS), Germany

ID: 657 / PO1: 191

Investigations on the cirrus cloud seeding abilities of K-feldspar dust particles

Kunfeng Gao, Zamin A. Kanji
Institute for Atmospheric and Climate Sciences, ETH Zurich, Switzerland

ID: 673 / PO1: 192

Synergistic Observations of Aerosol-Cloud Interactions During Long-Range Transported Dust Events

Gabriela Ciocan[1,2], Anca Nemuc[1], Jeni Vasilescu[1], Livio Belegante[1], Razvan Pirloaga[1]
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ID: 139 / PO1: 193

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

Adéla Holubová Šmejkalová, Marcela Hejkrlíková, Radek Lhotka
The Czech hydrometeorological institute, Czech Republic

ID: 965 / PO1: 194

Investigating Marine Aerosol Variability and Climate Feedbacks: A Multi-Site Analysis Using Particle Composition and Size Distribution Data

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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ID: 998 / PO1: 195

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

ID: 1138 / PO1: 196

Atmospheric conditions that drive NPF events: a case study

Aare Luts, Urmas Horrak, Kaupo Komsaare, Marko Vana, Heikki Junninen
Tartu University, Estonia

ID: 737 / PO1: 197

Bi-directional vertical transport of cluster ions during new particle formation

Luzie Kretschmer, Andreas Held
Technische Universität Berlin, Germany

ID: 1023 / PO1: 198

Diurnal cycle of new particle formation in the upper troposphere above the Amazon

Anouck Chassaing[1,2], Ilona Riipinen[1,2], Radovan Krejci[1,2], Roman Bardakov[1,2]
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ID: 407 / PO1: 199

Enhanced new particle formation in Milan due to low pollution and atmospheric mixing

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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ID: 1059 / PO1: 200

First Determination of New Particle Formation in Istanbul

Melike Servin Coşgun[1], Ülkü Alver Şahin[1], Panayiotis Kalkavouras[2], Coşkun Ayvaz[1], Burcu Uzun Ayvaz[1], Zehra Çolak[1], Burcu Onat[1], Sadullah Levent Kuzu[3], Gülen Güllü[4], Mihalopoulos Nikolaos[2], Roy Harrison[5,6]
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Sciences, University of Birmingham, Birmingham B15 2TT, UK; [6]Department of Environmental Sciences, Faculty of Meteorology, Environment and Arid Land Agriculture, King Abdulaziz University, Jeddah, Saudi Arabia

ID: 466 / PO1: 201

New particle formation in urban background conditions in the Po valley

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ID: 543 / PO1: 202

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

Vijay Punjaji Kanawade[1], Neha Deot[1], Mihai M. Ciobanu[1], Aliki Christodoulou[1,2], Anchal Garg[1], Efstratios Bourtsoukidis[1], Alkistis Papetta[1], Rima Baalbaki[1], Michael Pikridas[1], Spyros Bezantakos[1], George Biskos[1], Franco Marenco[1], Jean Sciare[1], Tuija Jokinen[1]
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ID: 380 / PO1: 203

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

Yoonkyeong Ha[1], Jeongbeen Kim[1], Mijung Song[2,3], Ji Yi Lee[4], Kyoung-Soon Jang[5], Kwangyul Lee[6], Junyoung Ahn[6], Changhyuk Kim[1,7]
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ID: 550 / PO1: 204

Estimation of particle growth rate using cross-correlation

Janne Lampilahti, Santeri Tuovinen, Katrianne Lehtipalo, Pauli Paasonen, Veli-Matti Kerminen, Markku Kulmala
University of Helsinki, Finland

ID: 772 / PO1: 205

Humidity driven spontaneous OH radical-initiated oxidation of organic aerosols

Maria Angelaki[1], D. James Donaldson[2,3], Sebastien Perrier[1], Matthieu Riva[1,4], Christian George[1]
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ID: 689 / PO1: 206

Characterisation of VOC over the Great Barrier Reef

Magdalena Okuljar[1], Juha Sulo[1], Zijun Li[1], Joel Alroe[1], Daniel Harrison[2], Zoran Ristovski[1]
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ID: 381 / PO1: 207

Competitive multiphase reactions of deliquesced aerosol particles in the presence of SO2 and NO2 regulated by aerosol pH

Nanami Emori, Masao Gen
Chuo University

ID: 567 / PO1: 208

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
Karlsruhe Institute of Technology, Germany

ID: 114 / PO1: 209

THE IMPACT OF VEHICLE EMISSION CHARACTERISTICS ON SECONDARY AEROSOL FORMATION: A LABORATORY STUDY USING AN OXIDATION FLOW REACTOR

Fabio Sasso[1], Francesca Picca[1], Salvatore Florio[2], Corrado Fittavolini[2], Antonello Tilocca[2], Massimiliano Tincani[2], Daniele Limiroli[2], Andrea D'Anna[1]
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ID: 763 / PO1: 210

Growth of coating thickness driving absorption enhancement in the urban city of Barcelona

Laura Renzi[1], Angela Marinoni[1], Marco Zanatta[1], Paolo Laj[2], Xavier Querol[3], Marco Pandolfi[3]

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ID: 271 / PO1: 211

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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ID: 1216 / PO1: 212

CFD and Experimental Investigation of Time-Controlled Aerosol Delivery from a Nebulizer in respiratory airways

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ID: 1219 / PO1: 213

Formation and Aging of Nitrogen-Containing Organic Aerosol

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ID: 1060 / PO1: 214

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

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ID: 1134 / PO1: 215

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

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ID: 215 / PO1: 216

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

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ID: 254 / PO1: 217

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

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ID: 281 / PO1: 218

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

Henri Diémoz[1], Francesca Barnaba[2], Luca Ferrero[3], Annachiara Bellini[1], Claudia Désandré[1], Tiziana Magri[1], Caterina Mapelli[2,4], Devis Panont[1], Ivan K.F. Tombolato[1], Manuela Zublena[1]
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ID: 440 / PO1: 219

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

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ID: 744 / PO1: 220

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

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ID: 1191 / PO1: 221

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

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ID: 339 / PO1: 222

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

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ID: 361 / PO1: 223

Aerosols collection through dynamic fog aggregation: the case of asbestos

José Luis Pérez-Díaz[1,2], Cristina Del Álamo-Toraño[1], Sonia Peiró[2], Elisa María Ruiz-Navas[3], Francisco Javier Pérez-Del-Álamo[2], Juan Sánchez-García-Casarrubios[4], María del Pilar Del Álamo-Lobo[2]
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ID: 647 / PO1: 224

PM in restaurant kitchen air - preliminary results

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ID: 632 / PO1: 225

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

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ID: 364 / PO1: 226

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

ID: 1039 / PO1: 227

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

Efthimios Zervas, Niki Matsouki, Chara Tsipa, Maria Makrygianni, Zoe Gareiou, Areti Tseliou
Hellenic Open University, Greece

ID: 459 / PO1: 228

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

Elena Bazo[1,2], Kristina Höhler[3], Alexander Böhmländer[3], Nsikanabasi Silas Umo[3], Najin Kim[4], Larissa Lacher[3], Gloria Titos[1,2], Olga Ruiz-Galera[1], Francisco José Olmo[1,2], Lucas Alados-Arboledas[1,2], Ottmar Möhler[3], Alberto Cazorla[1,2]
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ID: 1005 / PO1: 229

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

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ID: 1213 / PO1: 230

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

Ajtai Tibor[1,2], Csilla Gombi[1], Szabolcs Hodoványi[1], István Magashegyi[1], Abdul Rahman[1,2], Zoltán Bozóki[1,2], Gábor Szabó[1,2]
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