Conference Agenda

Session

Poster Session Tuesday

Time: **Tuesday, 02/Sept/2025: 5:15pm - 6:45pm**

Location: **Studium2000**

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

Presentations

ID: 223 / PO2: 1

Switching regimes in fire plumes: regional implications

Eleni Dovrou[1,2], Apostolos Voulgarakis[1,2]

[1]School of Chemical and Environmental Engineering, Technical University of Crete, Greece; [2]Leverhulme Center for Wildfires, Environment and Society, Imperial College London, London, UK

ID: 293 / PO2: 2

Biomass Burning Organic Aerosols as a Pool of Atmospheric Reactive Triplets to Drive Multiphase Sulfate Formation

Chak Keung Chan[1], Zhancong Liang[1], Liyuan Zhou[1], Yuqing Chang[1], Yiming Qin[2]

[1]King Abdullah University of Science and Technology, Saudi Arabia; [2]City Univeristy of Hong Kong, Hong Kong

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ID: 442 / PO2: 3

Aerosol composition and gas/particle partitioning in a nitrogen dominated atmosphere

Pascale Ooms[1], Farhan Nursanto[1], Willem Kroese[2], Marianne Heida[3], Margreet van Zanten[1,3], Roy Wichink Kruit[3], Marte Voorneveld[3], Marten in 't Veld[3], Rupert Holzinger[2], Uli Dusek[4], Juliane Fry[1]

[1]Wageningen University & Research, the Netherlands; [2]Utrecht University, the Netherlands; [3]National Institute for Public Health and Environment, the Netherlands; [4]Rijksuniversiteit Groningen, the Netherlands

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ID: 803 / PO2: 4

Chemical formation pathways of secondary organic aerosols in the Beijing-Tianjin-Hebei region in wintertime

Jie Li

Yunnan University, China

ID: 211 / PO2: 5

Cross-validation of methods for quantifying the contribution of local (urban) and regional sources to PM2.5 pollution: Application in the Eastern Mediterranean (Cyprus)

Elie Bimenyimana[1], Jean Sciare[1], Konstantina Oikonomou[1], Minas Iakovides[1], Michael Pikridas[1], Emily Vasiliadou[3], Chrysanthos Savvides[3], Nikos Mihalopoulos[1,2]

[1]Climate and Atmosphere Research Centre (CARE-C), Nicosia, Cyprus; [2]National Observatory of Athens, Athens, Greece; [3]Department of Labour Inspection, Ministry of Labour and Social Insurance, Nicosia, Cyprus

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ID: 494 / PO2: 6

Black Carbon Trends and Source Apportionment in Berlin: A Multi-Year Analysis

Himanshu Setia[1], Michael Pikridas[2], Seán Schmitz[1], Erika Von Schneidemesser[1]

[1]Forschungsinstitut für Nachhaltigkeit – Helmholtz-Zentrum Potsdam, Germany; [2]Climate and Atmosphere Research Center (CARE-C), The Cyprus Institute, Nicosia, Cyprus

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ID: 109 / PO2: 7

Aerosols from Biomass Burning: A Comparative Study under Controlled and Uncontrolled Combustion Conditions

Durre Nayab Habib, Laurynas Bucinskas, Andrius Garbaras, Agne Masalaite

State Research Institute, Center For Physical Sciences And Technology, Vilnius, Lithuania, Lithuania

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ID: 911 / PO2: 8

Modelling Air Pollution in Coastal Industrial Zones of Chile: A Fuzzy Clustering and High-Resolution Spatial Approach Including the “Gray Zone”

Miguel Ángel Lugo Salazar, Hector Iván Jorquera González

Pontifical Catholic University of Chile, Chile

ID: 989 / PO2: 9

Source apportionment analysis of phosphorus in PM2.5 and PM10 in two Greek cities

Kyriaki Papoutsidaki[1], Georgios Grivas[2], Faidra Aikaterini Kozonaki[1,2], Kalliopi Tavernaraki[1], Konstantina Oikonomou[3], Irini Tsiodra[2], Maria Tsagkaraki[1], Aikaterini Bougiatioti[2], Nikolaos Mihalopoulos[2], Maria Kanakidou[1,4,5]

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ID: 209 / PO2: 10

Source apportionment of aerosol particles by positive matrix factorization in urban background environment (Vilnius, Lithuania)

Viachaslau Alifirenka, Vitalij Kovalevskij, Mindaugas Gaspariūnas, Mindaugas Bernatonis, Steigvilė Byčenkienė
State research institute Center for Physical Sciences and Technology, Lithuania

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ID: 779 / PO2: 11

Spatial characterization of Urban Particle Phase Pollution Sources through Mobile Measurements in Sarajevo

Michael Bauer[1], Jay Gates Slowik[1], Marta Via[2], Peeyush Khare[1,5], Benjamin Guy Jacques Chazeau[3], Kristina Glojek[1,6], Manousos Ioannis Manousakas[1,7], Zachary C.J. Decker[1,8], Almir Bijedić[4], Enis Krečinić[4], Griša Močnik[2], André S. H. Prévôt[1], Katja Džepina[1]
[1]PSI Center for Energy and Environmental Sciences, 5232 Villigen PSI, Switzerland; [2]University of Nova Gorica, Nova Gorica, 5000, Slovenia; [3]Aix Marseille Univ., CNRS, LCE, Marseille, 13007, France; [4]Federal Hydrometeorological Institute of Bosnia and Herzegovina, Sarajevo, 71000, Bosnia and Herzegovina; [5]now at: Institute of Climate and Energy Systems (ICE-[3]Troposphere, Forschungszentrum Jülich, 52428 Jülich, Germany; [6]now at: Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, 08034, Spain; [7]now at: Environmental Radioactivity & Aerosol Tech. for Atmospheric & Climate Impacts, INRaSTES, National Centre of Scientific Research "Demokritos", Ag. Paraskevi, 15310, Greece; [8]now at: NOAA CSL & Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO, USA

ID: 317 / PO2: 12

Chemical composition, sources and vertical transport of non-refractory submicron aerosol in Po Valley: simultaneous on-line measurements at Bologna (54 m a.s.l.) and Mt. Cimone (2165 m a.s.l.)

Marco Rapuano[1], Cecilia Magnani[1], Matteo Rinaldi[1], Marco Paglione[1], Alessandro Bracci[1], Ferdinando Paqualini[1], Laura Renzi[1], Martina Mazzini[1], Simonetta Montaguti[1], Claudia Roberta Calidonna[2], Marco Zanatta[1], Camilla Perfetti[1], Nora Zannoni[1], Stefano Decesari[1], Angela Marinoni[1]
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ID: 810 / PO2: 13

Comprehensive source apportionment of black carbon at a rural site in Punjab using the aethalometer model and positive matrix factorization (PMF) model

Ajit Kumar[1], Vikas Goel[1,3], Mohammad Faisal[2,4], Umer Ali[2], Anjanay Pandey[2], Vikram Singh[2], Mayank Kumar[1]
[1]Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; [2]Department of Chemical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; [3]Department of Civil and Environmental Engineering, Virginia Tech, Blacksburg, USA, 24060; [4]Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Villegen, Aargau 5232 Switzerland

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ID: 318 / PO2: 14

Advancing Air Quality and Climate Insights in Lahti, Finland: Investigating Regional Emission Sources

Haitong Zhang[1,2], Benjamin Foreback[1,2], Michael Boy[1,2,3]
[1]1Institute for Atmospheric and Earth System Research/Physics, University of Helsinki, Finland; [2]Atmospheric Modelling Centre Lahti, Finland; [3]3School of Engineering Science, Lappeenranta-Lahti University of Technology,Finland

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ID: 884 / PO2: 15

Black carbon source apportionment and air mass transport effects in urban areas across warm and cold seasons

Moritz Hey[1,2], Agne Minderyte[3], Nikolaos Evangeliou[4], Steigvilė Byčenkienė[3], Iwona S. Stachlewska[2]
[1]Institute for atmospheric Physics, University of Mainz (JGU); [2]University of Warsaw; [3]Center for Physical Sciences and Technology; [4]Stiftelsen NILU (former Norwegian Institute for Air Research)

ID: 249 / PO2: 16

Light Absorbing Carbon in Atmospheric Particulate Matter in Lagos

Adebola Odu-Onikosi[1,2], Paul Solomon[3], Philip K. Hopke[1,4]
[1]Clarkson University, United States of America; [2]EnvironQuest Limited, Nigeria; [3]PAS Environmental, LLC, United States of America; [4]University of Rochester, United States of America

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ID: 879 / PO2: 17

Evaluation of aerosol optical properties of cooking emissions in rural East African homes

Andrea Cuesta-Mosquera[1], Thomas Müller[1], Leizel Madueno[1], Allan Mubiru[2], Christine Muhongerva[3], Manuela van Pinxteren[1], Dominik van Pinxteren[1], Henning Kothe[4], Mira Pöhlker[1]
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ID: 934 / PO2: 18

Optical and Aerodynamic Properties of Solid Aerosol Aggregates in the Context of Potential Stratospheric Aerosol Injection

Zhongxia Sun[1], Sandro Vattioni[2], Martin Gysel-Beer[1]
[1]Paul Scherrer Institute PSI, Switzerland; [2]ETH Zürich, Switzerland

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ID: 1093 / PO2: 19

Characteristics of Black Carbon in San Luis Potosi City, Mexico.

Valter Armando Barrera Lopez[1], Juan Pablo Lopez[2], Guadalupe Galindo[3]
[1]UASLP, Mexico; [2]IMAREC, UASLP, Mexico; [3]CIACYT, UASLP, Mexico

ID: 121 / PO2: 20

Unraveling the Role of PAHs in Shaping Primary and Secondary Brown Carbon Absorption in Eastern India's Semi-Urban Atmosphere

Prerna Thapliyal[1], Apoorvi Sharma[1], Ashish Soni[2], Pratibha Vishwakarma[1], Tarun Gupta[1]

[1]Indian Institute of Technology, Kanpur, India; [2]Indian Institute of Tropical Meteorology, Pune, India

ID: 445 / PO2: 21

Wintertime aerosol chemical composition over the Arabian Sea based on shipboard collected aerosols: Implication to surface water biogeochemical processes

Garima Shukla[1,2], Ashwini Kumar[1,2]

[1]1CSIR-National Institute of Oceanography, Dona Paula, Goa, 403004, India; [2]2Academy of Scientific and Innovative Research (AcSIR), Ghaziabad 201002, India

ID: 1165 / PO2: 22

Spatial and Seasonal Variation in Chemical Composition of Urban Residential Outdoor PM2.5 across four cities in India

Rajdeep Singh, Vinayak Sahota, Sonali Borse, Akshay Kumar, Harish C. Phuleria

Indian Institute of Technology Bombay, India

ID: 1064 / PO2: 23

Multiphase Aerosol-Cloud Chemistry and Secondary Aerosol Formation from α-pinene

Laurie Anne Novák[1], Jinglan Fu[2,4], Willem S. J. Kroese[3], Juliane Fry[1], Maarten Krol[1,3]

[1]Wageningen University & Research, The Netherlands; [2]Center for Isotope Research, Rijksuniversiteit Groningen, The Netherlands; [3]Institute for Marine and Atmospheric Research Utrecht, Utrecht University, The Netherlands; [4]Institute of Meteorology and Climate Research-Atmospheric Aerosol Research, Karlsruhe institute of Technology, Germany

ID: 1100 / PO2: 24

On-line speciation of glyoxal multiphase reactions on deliquesced ammonium sulfate particles

Anne Monod[1], Nicolas Brun[1], Anil Kumar Mandariya[2], Junteng Wu[3], Jian Xu[1], Manon Rocco[1], Laurent Poulain[4], Mathieu Cazaunau[2], Antonin Berge[2], Edouard Pangui[2], Brice Temime-Roussel[1], Bénédicte Picquet-Varrault[2], Jean-Louis Clément[1], Aline Gratien[2], Liang Wen[4], Thomas Schaefer[4], Andreas Tilgner[4], Hartmut Herrmann[4], Jean-François Doussin[2]

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ID: 937 / PO2: 25

Playing with bricks: speciation models to depict the interaction among water-soluble components of the atmospheric particulate matter

Stefano Bertinetti[1], Matteo Marafante[1], Luca Carena[1], Clemente Bretti[2], Demetrio Milea[2], Anna Annibaldi[3], Cristina Truzzi[3], Silvia Illuminati[3], Debora Fabbri[1], Davide Vione[1], Milena Sacco[4], Mery Malandrino[1], Silvia Berto[1]

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ID: 756 / PO2: 26

Results from the first chemical ionization mass spectrometry Intercomparison Workshop at the TROPOS twin chamber setup in ACTRIS CiGas

Peter Mettke[1], Nina Sarnela[2], Falk Mothes[1], Hartmut Herrmann[1]

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ID: 800 / PO2: 27

Concentrations of Key Atmospheric Pollutants: BC and PAHs in PM2.5 – Levels, Meteorological Influence, Correlation with Other Pollutants and Health Aspects

Lenia-Nezaet de Brito Gonsalvesh[1], Nadya Neykova[2], Blagorodka Veleva[2], Stela Naydenova[1], Anife Veli[1], Zilya Mustafa[1], Elena Hristova[2]

[1]Burgas State University Prof. Dr Asen Zlatarov, Bulgaria; [2]National Institute of Meteorology and Hydrology, Sofia, Bulgaria

ID: 536 / PO2: 28

Effects of hydroperoxy radical heterogeneous loss on the summertime ozone formation in the North China Plain

Ruonan Wang

Institute of Earth Environment, Chinese Academy of Sciences, China, People's Republic of

ID: 1137 / PO2: 29

Modelling for atmospheric radicals and oxidants on PM2.5 and O3 episodic and non-episodic days in an urban area of Taiwan

Shi-Ya Tang, Li-Hao Young

China Medical University, Taiwan

ID: 263 / PO2: 30

Photosensitization Induced by Carbonyl Compounds and Its Role in Secondary Aerosols Formation

Ruifeng Zhang, Chak Chan
King Abdullah University of Science and Technology, Saudi Arabia

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ID: 1210 / PO2: 31

Fast generation of peroxides via particulate photosensitization

Zhancong Liang, Liyuan Zhou, Chak K. Chan
King Abdullah University of Science and Technology, Saudi Arabia

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ID: 1200 / PO2: 32

Wildfire chromophores enhance the production of sulfate radicals in Ammonium Sulfate photochemistry

Angelina Petersen[1], Zonghao Luo[2], Alair Wong[1], Ruiyang Xiao[2], Tran Nguyen[1]
[1]University of California, Davis, United States of America; [2]Central South University, Changsha, China

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ID: 1070 / PO2: 33

Numerical Analysis of Fuel Injection Control and Its Impact on Aerosol Formation and Transport in Urban Canyons and Open Environments

Mojtaba Bezaatpour[1], Mehrdad Nazemian[2], Miikka Dal Maso[1], Matti Rissanen[1,3]
[1]Tampere University, Finland; [2]Sahand University of Technology; [3]University of Helsinki

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ID: 762 / PO2: 34

Dust contribution in the performance evaluation of the FARM dispersion model

Annalisa Tanzarella[1], Angela Morabito[1], Ilenia Schipa[1], Francesca Intini[1], Tiziano Pastore[1], Stefano Spagnolo[1], Nicola Pepe[2], Paola Radice[2], Roberto Primerano[1], Vincenzo Campanaro[1]
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ID: 478 / PO2: 35

Impact of Traffic Emissions on Near-Road Air Quality in the Presence of a Noise Barrier: A PALM-LES Simulation

Ali Kooh andaz[1], Xiaoyu Li[2], Ville Silvonen[1], Jarkko Niemi[3], Juan Andres Casquero-Vera[2], Sami D. Harni[4], Leena Järvi[2,5], Topi Rönkkö[1], Anu Kousa[3], Tommy Chan[2], Tuukka Petäjä[2], Hilkka Timonen[4], Miikka Dal Maso[1]
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ID: 289 / PO2: 36

Radiative Cooling in New York/New Jersey Metropolitan Areas by Wildfire Particulate Matter

Georgios A. Kelesidis[1,2], Constantinos Moularas[1,2], Hooman Parhizkar[2], Leonardo Calderon[3], Irini Tsiodra[4], Nikolaos Mihalopoulos[4,5], Marios Bruno Korras-Carraca[6], Nikolaos Hatzianastassiou[6], Panos G. Georgopoulos[2], Jose G. Cedeño Laurent[2], Philip Demokritou[2]
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ID: 526 / PO2: 37

Monitoring and Analysis of Black Carbon in different cities in Mexico

Valter Armando Barrera Lopez
UASLP, Mexico

ID: 103 / PO2: 38

Aerosol Model-Measurement Comparison for Improving the Prediction of Aircraft Engine Deterioration

Erik Seume[1], Barbara Harm-Altstädter[2], Lutz Bretschneider[2], Jan Göing[1]
[1]Institute of Jet Propulsion and Turbomachinery, Technische Universität Braunschweig, Germany; [2]Institute of Flight Guidance, Technische Universität Braunschweig, Germany

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ID: 861 / PO2: 39

Desert dust exposure in sub-Saharan Africa: the case of the city of Cotonou, Benin

Marcos Migan[1,2], Fabrice Cazier[3], Nathalie Verbrugghe[4], Anthony Verdin[1], Fresnel Boris Cachon[2], Marc Fadel[1], Aurore Dega[2], Aaron Kakpo[2], Loïc Adonouhoue[2], Firmin Sagbo[2], Dorothee Dewaele[3], Nour Jaber[1], Faustin Aissi[1], Ulrich Patinvoh[5], Gildas Agodokpessi[5], Ménonvè Cynthia Atindehou[2], Arnauld Fiogbe[5], Richard Lalou[6], Dominique Courcot[1]
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ID: 414 / PO2: 40

Effects of Urban Form on PM2.5 Concentration Using Explanatory Machine Learning

Mehri Davtalab, Steigvilė Byčenkienė
SRI Center for Physical Sciences and Technology (FTMC), Lithuania

ID: 739 / PO2: 41

Investigating the vertical distribution of sporadic appearance of ultrafine aerosol particles emitted at the airport FRA

Malte Schuchard[1], Anna Voß[1], Konrad Bärfuss[1], Sven Bollmann[1], Lutz Bretschneider[1], Markus Hermann[2], Frank Holzäpfel[4], Ralf Käthner[2], Astrid Lampert[1], Falk Pätzold[1], Andreas Schlerf[1], Steffen Schmitt[3], Barbara Harm-Altstädter[1]
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ID: 918 / PO2: 42

Saharan Dust Transport in the Mediterranean: Circulation Patterns, Air Quality Monitoring, and Chemical Composition Analysis

Francesca Calastrini[1,3], Andrea Orlandi[2], Gianni Messeri[1,3], Riccardo Benedetti[3], Alessandro Zaldei[1], Carolina Vagnoli[1], Beniamino Gioli[1], Giovanni Gualtieri[1], Tommaso Giordano[1], Simone Putzolu[1], Silvia Becagli[4], Rita Traversi[4], Mirko Severi[4], Silvia Nava[5], Franco Lucarelli[6]
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ID: 822 / PO2: 43

Dust storm dynamics: a study using HYSPLIT and WRF to analyze dust transport patterns in León, Spain

Evi Becerra-Acosta[1], Ana I. Calvo[1], Josue M. Polanco-Martinez[2], Carlos Blanco-Alegre[1], Lucrecia Bile Osa-Akara[1], Darrel Baumgardner[3], Roberto Fraile[1]
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ID: 145 / PO2: 44

The Spectroscopic Multiparameter Particle Analyzer

Darrel Baumgardner
Droplet Measurement Technologies, United States of America

ID: 132 / PO2: 45

Enhancing Air Quality Governance: Results from LIFE SIRIUS in Rome

Maria Agostina Frezzini, Donatella Occhiuto, Laura Bennati, Arianna Marinelli, Alessandro Di Giosa
Enviromental Protection Agency of Lazio Region ARPA Lazio, Italy

ID: 791 / PO2: 46

High-Resolution Modeling of Air Pollution in Poland: Evaluation of EMEP4PL and uEMEP for PM2.5, NO2, and O3

Kinga Areta Wisniewska[1], Małgorzata Werner[1], Bruce R. Denby[2], Qing Mu[3], Maciej Kryza[1]
[1]University of Wrocław; [2]Norwegian Meteorological Institute; [3]Xi'an Jiaotong-Liverpool University

ID: 351 / PO2: 47

Impacts of urban expansion on meteorology and air quality in North China Plain during wintertime: A case study

Qian Jiang
Institute of earth environment, Chinese Academy of Sciences, China, People's Republic of

ID: 816 / PO2: 48

Microscale impact assessment of particulate matter emissions from a large steel plant in Taranto (Italy)

Francesca Intini[1], Angela Morabito[1], Annalisa Tanzarella[1], Ilenia Schipa[1], Gianni Tinarelli[2], Daniela Barbero[2], Umberto Giuriato[2], Tiziano Pastore[1], Vincenzo Campanaro[1]
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ID: 1027 / PO2: 49

Preliminary Analysis of Aerosol Size Distribution and Air Mass Origins at Col Margherita

Claudia Rossetti[1], Eleonora Favaro[2], Elena Barbaro[1], Matteo Feltracco[2], Andrea Gambaro[2], Lorenzo Giovannini[3], Giorgio Doglioni[3], Massimo Cassiani[3,4], Marco Di Paolantonio[5], Paolo Di Girolamo[6], Akanksha Rajput[3], Dino Zardi[3], Warren Lee Raymond Cairns[1]
[1]Institute for Polar Sciences, National Research Council (CNR-ISP), Venice, Italy; [2]Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy.; [3]Department of Civil Environmental and Mechanical Engineering (DICAM), University of Trento, Trento, Italy.; [4]Stiftelsen NILU, Kjeller, Norway; [5]Institute of Marine Sciences, National Research Council (CNR-ISMAR), Italy; [6]Department of Health Sciences (DISS), University of Basilicata, Potenza, Italy

ID: 1207 / PO2: 50

Investigating drivers of recent reductions in PM2.5 concentrations across the UK

Daniel Bryant[1,2], Alastair Lewis[1,2], Sarah Moller[1,2]

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ID: 315 / PO2: 51

Characterization of Secondary Organic Aerosols formed in Atmospheric Simulation Chambers and Flow Tube with Liquid Chromatography - High-Resolution Mass Spectrometry

Nicolas Houzel[1], Paul Genevray[1], Fatima Al Ali[1,2], Lingshuo Meng[1,2], Florence Jacob[2], Fabrice Cazier[1], Manolis Romanias[2], Alexandre Tomas[2], Cécile Coeur[1]

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ID: 1049 / PO2: 52

Urban vs. Suburban PM10 Organic Aerosols fingerprints in an Eastern Mediterranean medium-sized coastal city

Evangelos Stergiou[1,2], Anastasia Chrysovalantou Chatziioannou[1], Spiros A. Pergantis[1], Maria Kanakidou[1,2,3]

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ID: 1108 / PO2: 53

Organic and emerging pollutants in indoor suspended particles hospitals before, during and after SARS-CoV2 pandemic.

Paola Romagnoli, Francesca Vichi, Catia Balducci, Angelo Cecinato

CNR, Italy

ID: 978 / PO2: 54

Primary emissions and secondary organic aerosol production potential of a large automobile fleet focusing on cold starts at an underground parking facility

Christos Kaltsonoudis[2], Damianos Pavlidis[1,2], Angeliki Matrali[1,2], Christina N. Vasilakopoulou[2], Silas Androulakis[1,2], Christina Christopoulou[1,2], Georgia A. Argyropoulou[1,2], Katerina Seitanidi[2], Yanfang Chen[3], A. S. H. Prevot[3], Spyros N. Pandis[1,2]

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ID: 1051 / PO2: 55

Stability of clusters of highly oxygenated organic molecules from alpha-pinene ozonolysis and sulphuric acid oxidation.

Heikki Junninen[1], Paap Koemets[1,6], Eva Sommer[2], Ruth Konrat[3], Sander Mirme[1,6], Kalju Tamme[1], Paul Winkler[3], Manjula Canagaratna[4], Doug Worsnop[5]

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ID: 1126 / PO2: 56

Chemical aerosol composition of biomass burning emissions exposed to daytime and nighttime oxidation conditions in the EUPHORE chambers

Mila Ródenas[1], Rubén Soler[1], Teresa Vera[1], Balint Alfoldy[2], Asta Gregorič[2,3], Martin Rigler[1], Esther Borrás[1], Eduardo Yubero[4], Javier Crespo[4], Tatiana Gómez[1], Maria L. Martinez[1], Amalia Muñoz[1]

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ID: 329 / PO2: 57

Aerosol composition, sources, and their relation to meteorology on the highest mountain in southwest Germany

Harald Saathoff[1], Yanxia Li[1], Alexander Böhmländer[1], Milin Sebastian[1], Ottmar Möhler[1], Franziska Vogel[2], Hengheng Zhang[3], Thomas Leisner[1]

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ID: 579 / PO2: 58

ATMOMACCS: Predicting atmospheric compound properties.

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ID: 394 / PO2: 59

Cheating the path to new molecular tracers: gas-phase ammonia and organic aerosol-driven reactivity

Luca D'Angelo, Florian Ungeheuer, Jialiang Ma, Julia David, Alexander Lucas Vogel

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ID: 576 / PO2: 60

Comparative Analysis of Chemical Composition and Oxidative Potential of PM1.0 and PM2.5 in Seosan, Republic of Korea

Chaehyeong Park, Seoyeong Choe, Hajeong Jeon, Dong-Hoon Ko, Myoungki Song, Geun-Hye Yu, Min-Suk Bae

Mokpo National University, Korea, Republic of (South Korea)

ID: 653 / PO2: 61

Composition and sources of organic particles and vapours in an urban location during wintertime

Angeliki Matrali[1,2], Christos Kaltsonoudis[2], Maria Georgopoulou[1,2], Andreas Aktypis[2], Georgia Argyropoulou[1,2], Christina N. Vasilakopoulou[2], Katerina Seitanidi[2], Spyros N. Pandis[1,2]

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ID: 573 / PO2: 62

Identification of fine particulate matter and Gaseous Pollution Sources Contributing to Oxidative Potential in a National Petrochemical Industrial Complex: Based on the source apportionment Model

Seoyeong Choe, Chaehyeong Park, Hajeong Jeon, Dong-Hoon Ko, Myoungki Song, Geun-Hye Yu, Min-Suk Bae

Mokpo National University, Korea, Republic of (South Korea)

ID: 574 / PO2: 63

Impact of Agricultural Activities on PM2.5 Emissions and Oxidative Potential in Rural Areas of South Korea

Hajeong Jeon, Chaehyeong Park, Seoyeong Choe, Dong-Hoon Ko, Myoungki Song, Geun-Hye Yu, Min-Suk Bae

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ID: 575 / PO2: 64

Long-Range Transport and Airborne Measurements of VOCs Using Proton-Transfer-Reaction Mass Spectrometry Validated Against GC-MS-Canister Data During the ASIA-AQ Campaign

Dong-Hoo Ko, Sea-Ho Oh, Chaehyeong Park, Seoyeong Choe, Hajeong Jeon, Myoungki Song, Geun-Hye Yu, Min-Suk Bae

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ID: 1002 / PO2: 65

Monitoring of Nitrated Polycyclic Aromatic Hydrocarbons in the Czech Republic

Zdeňka Rohanová, Irina Nikolova, Jiří Kovářík

Czech Hydrometeorological Institute, Czech Republic

ID: 1155 / PO2: 66

Saccharides study in aerosol during wintertime over urban sites in Central Europe and Indo-Gangetic Plain

Pradhi Rajeev[1], Tarun Gupta[2], Leszek Marynowski[3]

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ID: 379 / PO2: 67

The impact of open burning of rice straw on PM concentrations and tracer components in eastern Spain

Nuria Galindo

Miguel Hernández University of Elche, Spain

ID: 431 / PO2: 68

Airborne organic aerosol characterization in the Los Angeles Basin, California, during the AEROMMA 2023 summer campaign

Sarah Albertin[1,2], Alison Piasecki[1,2,3], Ann Middlebrook[1,2]

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ID: 594 / PO2: 69

Long-term monitoring of carbonaceous aerosols in the UK: Insights form national air quality monitoring network

Gyanesh K Singh, Krzysztof Ciupek, David M Butterfield, Chris C Robins, Douglas Walker, Andrew S Brown

National Physical Laboratory, UK, United Kingdom

ID: 185 / PO2: 70

Nighttime vertical distribution of black and brown carbon from biomass combustion during traditional Burning of the Witches in Central Europe

Saliou Mbengue[1], Petr Vodička[2], Kateřina Komínková[1,3], Jaroslav Schwarz[2], Naděžda Zíková[2], Radek Lhotka[2], Lenka Suchánková[1,2,4], Laurence Windell[2,5], Vlastimil Hanuš[1], Gabriela Vítková[1], Roman Prokeš[1,4], Adéla Holubová Šmejkalová[6], Petra Pokorná[2], Jakub Ondráček[2], Vladimír Ždímal[2]

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ID: 418 / PO2: 71

Optical and chemical properties of smoke aerosols from peri-urban wildfires in Athens

Dimitris G. Kaskaoutis[1], Kalliopi Petrinoli[2], Georgios Grivas[2], Panayiotis Kalkavouras[2], Maria Tsagkaraki[3], Kalliopi Tavernaraki[3], Kyriaki Papoutsidaki[3], Iasonas Stavroulas[2], Despina Paraskevopoulou[2], Aikaterini Bougiatioti[2], Eleni Liakakou[2], Rafaella-Eleni P.

Sotiropoulou[4], Efthimios Tagaris[1], Evangelos Gerasopoulos[2], Nikolaos Mihalopoulos[2]
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ID: 775 / PO2: 72

Source attribution of carbonaceous fraction of particulate matter in the urban atmosphere based on chemical composition

Katarzyna Styszko[1], Alicja Skiba[2], Anna Tobler[3], Roberto Casotto[4], Zbigniew Gorczyca[2], Lucyna Samek[2], Dariusz Wideł[5], Mirosław Zimnoch[2], Anne Kasper-Giebl[6], Jay G. Slowik[3], Kaspar R. Daellenbach[3], Andre S. H. Prevot[3], Kazimierz Różański[2]
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ID: 1154 / PO2: 73

Carbon content in PM10 and PM2.5 at a rural background monitoring site in the hinterland of Zadar, Croatia

Ranka Godec, Helena Prskalo, Suzana Sopčić, Ivan Bešlić, Gordana Pehnec
Institute for Medical Research and Occupational Health, Croatia

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ID: 743 / PO2: 74

Carbonaceous Particles from Gasoline and Diesel Vehicles' Exhaust: Chemical and Isotopic Composition

Agne Masalaite[1], Rupert Holzinger[2], Inga Garbariene[1], Laurynas Bucinskas[1], Andrius Garbaras[1], Ulrike Dusek[3]
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ID: 994 / PO2: 75

Characterization of endocrine disruptors and other organic compounds in gas and particles from outdoor and indoor air in Northern France

Marc Fadel[1], Peggy Desmettres[2], Léa Habib[1], Jean-Pierre El Morr[1], Carine Bail[3], Yann Landkocz[1,3], Dominique Courcot[1], Frédéric Ledoux[1]
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ID: 913 / PO2: 76

Mass concentrations of carbonaceous species in PM2.5 between seasons at different monitoring sites

Helena Prskalo, Ranka Godec, Valentina Gluščić, Ivona Mikić, Ivan Bešlić
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ID: 963 / PO2: 77

Multi-Seasonal Chemical Characterization of Organic Aerosols at Gruvebadet Laboratory

Diego Fellin[1,2], Gregory Vandergrift[3], Swarup China[3], Zhenli Joy Lai[3], Nurun Nahar Lata[3], Zezhen Cheng[3], Claudio Mazzoleni[4], Naruki Hiranuma[5], Mauro Mazzola[2], Elena Barbaro[1,2], Andrea Gambaro[1], Stefania Gilardoni[2]
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ID: 919 / PO2: 78

Physicochemical characterization of soot emissions from combustion of jet fuel blended with pentanol

Constantinos Moularas[1], Una Trivanovic[2,3], Irini Tsiodra[4], Kalliopi Tavernaraki[4], Nikos Mihalopoulos[4,5], Georgios A. Kelesidis[1]
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ID: 421 / PO2: 79

Rising Role of Secondary Organic Aerosol Amidst Emission Reductions in North China Plain

Chunshui Lin
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ID: 367 / PO2: 80

Evaluation of automated online-GC systems for time-resolved continuous measurements of ozone precursor VOCs in laboratory and field application

Max Hell[1], Dominik van Pinxteren[1], Hartmut Herrmann[1], Susanne Bastian[2]
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ID: 390 / PO2: 81

Automatic detection of allergenic pollen grains using the Swisens Poleno Jupiter in 2024–2025 (Poland, Wrocław)

Szymon Tomczyk[1], Małgorzata Werner[1], Małgorzata Malkiewicz[1], Karol Bubel[2]
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ID: 732 / PO2: 82

Characterization of a novel, mid-cost device for ambient monitoring of ultrafine particles

Una Trivanovic[1], Osnan Maragoto Rodriguez[2], Kevin Auderset[1], Florian Hüwe[2], Konstantina Vasilatou[1]
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ID: 1122 / PO2: 83

Comparison of ultrafine particle penetration in inertial and diffusional aerosol spectrometers: Nanocol vs. SDI2001

Maida Domat[1], Olivier Masson[2], François Gensdarmes[2]
[1]University of Oviedo, Spain; [2]Autorité de Sûreté Nucléaire et de Radioprotection (ASNR)

ID: 195 / PO2: 84

An Improved Method for Measuring Cyclone Efficiency

Abhigya Devkota, Kerry Chen, Jason Olfert
University of Alberta, Canada

ID: 308 / PO2: 85

Improving the accuracy of aerosol concentration measurements of an optical particle counter (UCASS) for balloon soundings

Sina Jost[1], Ralf Weigel[1], Konrad Kandler[2], Luis Valero[1,2], Jessica Girdwood[3,4], Chris Stopford[3], Warren Stanley[3], Luca Katharina Eichhorn[1], Christian von Glahn[1], Holger Tost[1]
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ID: 1044 / PO2: 86

Systematic Investigation of CPC Counting Efficiency for Three Alternative Working Fluids and Five Particle Seed Materials Cut-Offs at 10 nm and 23 nm

Victoria Fruhmann, Martin Kupper, Helmut Krasa, Alexander Bergmann
Graz University of Technology, Austria

ID: 1180 / PO2: 87

Atomically precise determination of cluster structures

Yaochen Han, Shirong Liu, Jicheng Feng
School of Physical Science and Technology, ShanghaiTech University, Shanghai, 201210, China

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ID: 835 / PO2: 88

Improving the time resolution of a size scanning Particle Size Magnifier

Joonas Vanhanen[1], Joonas Purén[1], Herbert Hartl[2], Aki Pajunoja[1]
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ID: 422 / PO2: 89

Measurement of number concentration of nanoparticles in suspension using ES-DMA technique

Jaeseok Kim
Korea Research Institute of Standards and Science, Korea, Republic of (South Korea)

ID: 688 / PO2: 90

Glassy nano-aerosol phase state and viscosity analysis using improved dual tandem differential mobility analyzer technique

Harsh Raj Mishra, Robert Groth, Branka Miljevic, Zoran Ristovski
School of Earth and Atmospheric Sciences, Queensland University of Technology, Brisbane, Australia

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ID: 949 / PO2: 91

How to quantify the uncertainty of the dilution factor of diluters with internal mixing gas preparation?

Lars Hillemann, Annett Mütze, Daniel Göhler, Stephan Gabsch, Stephan Große
Topas GmbH, Germany

ID: 945 / PO2: 92

Spectral aerosol light absorption measurements with a self-calibrated photothermal interferometer

Alireza Moallemi, Timothy Andrew Sipkens, Daniel Poitras, Jalal Norooz Oliaee, Joel Christopher Corbin
National Research Council Canada

ID: 904 / PO2: 93

The Fluidizer - a newly standardized method for dustiness determination

Carla Ribalta[1], Anna Pohl[1], Spyros Bezantakos[2], Daniela Wenzlaff[1], Kathleen De Maeyer[3], Bart De Vos[3], Kai-Helge Schäfer[4], Dirk Broßell[1], Elisabeth Heunisch[1], Thomas A.J. Kuhlbusch[1]

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ID: 1124 / PO2: 94

Use of a Particle-on-Slide Model for the Collection of Scattered Light, and Application to Multiphase Aerosols in Time-Dependent Systems

Thomas Dight, Chris Stopford, Richard S Greenway, Robert Lewis, Ricky Linforth

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ID: 903 / PO2: 95

Expanded Polytetrafluoroethylene Membrane-Based Humidification System for Aerosol Light Scattering Measurements

Cade Tischer, Jonathan Linderich, James Sherman, Patrick Richardson

Appalachian State University, United States of America

ID: 1170 / PO2: 96

The VERT GPF-Retrofit Program for Cleaner Urban Mobility within the HORIZON Europe AeroSolfd Project

Lauretta Rubino, Andreas Mayer, Thomas Lutz, Jan Czerwinski, Lars Larsen

VERT Association, Switzerland

ID: 493 / PO2: 97

Measuring NaCl with the CV-ToF-ACSM

Marije van den Born, Jan Mulder, Ulrike Dusek

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ID: 1104 / PO2: 98

Application of ToF-ACSM for Characterizing NR-PM1 chemical Composition at CIAO observatory in Southern Italy

Francesco Cardellicchio[1], Emilio Lapenna[1], Teresa Laurita[1], Davide Amodio[1], Antonella Buono[1], Isabella Zaccardo[1,2], Canio Colangelo[1], Gianluca Di Fiore[1], Serena Trippetta[1], Lucia Mona[1]

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ID: 1080 / PO2: 99

One filter at a time: development of a novel analysis workflow

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ID: 826 / PO2: 100

Maximizing the output from filter sample analysis: Evolved gas analysis from thermal-optical carbon analysis (TOCA) using photoionization mass spectrometry (PIMS)

Sven Ehlert[1], Hendryk Czech[2,3], Marco Schmidt[2], Patrick Martens[4], Martin Rigler[5], Andreas Walte[1], Ralf Zimermann[2,3]

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ID: 438 / PO2: 101

A new experimental Bench for Respiratory Droplet Analysis Under Varying Hygrothermal Conditions: Design and Characterization

Lyes Ait Ali Yahia, Evelyne Géhin, Thibault Perin, Cheikhouna Fall, Bilel Rahmouni

Univ Paris-Est Creteil, France

ID: 735 / PO2: 102

Generation of aged bioaerosols in the laboratory for training machine-learning algorithms of automatic bioaerosol monitors

Tianyu Cen[1], Stefan Horrender[1], Nicolas Bruffaerts[2], Elizabet D'hooge[2], Astha Tiwari[2], Christina Giannakoudaki[1], Benoit Crouzy[3], Elias Graf[4], Konstantina Vasilatou[1]

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ID: 767 / PO2: 103

Quantifying the Impact of Environmental Conditions and Biological Data Variability on the Robustness of Deep Learning-Based Pollen Classification Models

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ID: 332 / PO2: 104

Bioaerosol and ChAMBRe: methodologies to study the bacterial viability in different atmospheric conditions

Virginia Vernocchi[1], Marco Brunoldi[1,2], Elena Gatta[2], Tommaso Isolabella[1,2], Dario Massabò[1,2], Federico Mazzei[1,2], Franco Parodi[1], Paolo Prati[1,2]

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ID: 327 / PO2: 105

Effects on viability, culturability and cell fragmentation of two bioaerosol generators during E. coli bacteria aerosolization

Federico Mazzei[1,2], Marco Brunoldi[1], Elena Gatta[1], Muhammad Irfan[1], Tommaso Isolabella[1,2], Dario Massabò[1,2], Franco Parodi[2], Virginia Vernocchi[2], Paolo Prati[1,2]

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ID: 399 / PO2: 106

In situ characterization of adsorbates on aerosol nano-aggregates

Alfred Weber, Vinzent Olszok, Philipp Rembe, Annett Wollmann

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ID: 812 / PO2: 107

Selective detection of aerosolised respiratory droplets in ambient air

Matjaž Malok[1], Darko Kavšek[1], Anja Pogačnik Krajnc[1], Maja Remškar[1,2]

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ID: 188 / PO2: 108

Development of an online instrument for measuring the oxidative potential of atmospheric particulate matter with two complementary assays.

Albane Barbero[1], Guilhem Freche[1], Luc Piard[1], Lucile Richard[1], Takoua Mhadhbi[1], Anouk Marsal[1], Julie Camman[1,2], Mathilde Brezins[1,2], Benjamin Golly[3], Jean-Luc Jaffrezo[1], Gaëlle Uzu[1]

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ID: 671 / PO2: 109

Developing an RH-based correction for a PM2.5 low-cost sensor network

Savinda Heshani Arambawatta Lekamge, Henry Paul Oswin

Queensland University of Technology, Australia

ID: 1015 / PO2: 110

From the EU metrology projects AEROMET I & II to the HE project MI-TRAP – Reliable chemical aerosol analysis by X-ray spectrometry without calibration samples

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ID: 811 / PO2: 111

WALL-E: A New Wall-Free Particle Evaporator for Real-Time Online Particle Composition Measurements

Imad Zgheib[1,2], Linyu Gao[2], Cecilie Carstens[2], Frederic Bourgain[2], Michel Dupanloup[2], Felipe Lopez-Hilfiker[1], Sebastien Perrier[2], Matthieu Riva[1,2]

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ID: 820 / PO2: 112

A New Ground-Based Spectrometer for Improved Microphysical Characterization of Aerosols and Clouds

Lea Haberstock[1,2], Almuth Neuberger[1,2], Darrel Baumgardner[3], Dagen Hughes[3], Ilona Riipinen[1,2], Paul Zieger[1,2]

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ID: 178 / PO2: 113

Fine Particulate Matter (PM) Atmospheric Pollution : Monitoring Air Quality Using Plane Tree Barks as Bio-Monitors

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ID: 1030 / PO2: 114

High temporal frequency and online aerosol characterization for source apportionment evaluations. An application to a mixed urban and industrial hotspot.

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ID: 392 / PO2: 115

Investigation of DMSO-H2O mixture as working fluid for Condensation Particle Counters

Sarah Kirchhoff[1,2], Patrick Weber[1], Gerhard Steiner[3], Christian Kunath[3], Andreas Petzold[1,2], Ulrich Bundke[1]
[1]Forschungszentrum Jülich GmbH, Institute of Energy and Climate Research – Troposphere (ICE-3), Jülich, Germany; [2]Institute of Atmosphere and Environmental Research Wuppertal, Germany; [3]GRIMM Aerosol Technik GmbH

ID: 1156 / PO2: 116

Optimizing UAV methodology with a low-cost sensing system for air quality monitoring in diverse environmental settings

Joana Lage[1,2], Carolina Correia[1], Susan Marta Almeida[1], Diogo Henriques[3], Jens Voigtländer[4], Sebastian Düsing[4], Birgit Wehner[4], Ajit Ahlawat[4,5]
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ID: 833 / PO2: 117

Single particle polarization measurement for aerosol characterization and classification

Dominic Rothenfluh, Yanick Zeder, Philipp Burch, Reto Abt, Erny Niederberger, Andreas Schwendimann, Elias Graf
Swisens AG, Switzerland

ID: 437 / PO2: 118

Implementation of a sensor network for the detection of airborne pollutants in a medium-sized city (In the context of the MAMELI project)

Giacomo Fanti[1], Andrea Spinazzè[2], Andrea Cattaneo[2], Ester Luconi[1], Elia Biganzoli[3,4], Valentina Bollati[1,3]
[1]Department of Clinical Sciences and Community Health, University of Milan, Italy; [2]Department Science and High Technology, University of Insubria, Italy; [3]INES (Institute of Epigenetics for Smiles), University of Milan, Italy; [4]Department of Biomedical and Clinical Sciences, University of Milan, Italy

ID: 273 / PO2: 119

A novel approach for the determination of Total Carbon, Organic Carbon, and Elemental Carbon with Aerosol Magee Scientific Carbonaceous Aerosol Speciation System CASS

Klemen Kunstelj[1], Matic Ivancic[1], Asta Gregoric[1,2], Gasper Lavric[1], Balint Alfoldy[1], Irena Jezek Brecelj[1], Martin Rigler[1]
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ID: 1140 / PO2: 120

Environmental and Procedural Influences on PM Filter Weighing Accuracy in a Robotic System

Kamila Widziewicz-Rzońca, Dmytro Chyzhykov, Patrycja Rogula-Kopiec, Monika Błaszczak, Barbara Mathews
Institute of Environmental Engineering Polish Academy of Sciences, Poland

ID: 1193 / PO2: 121

Understanding Indoor Air Quality Under Various Ventilation Strategies Using Low-Cost Sensors in a Future Home

Navaneeth Meena Thamban[1], Thomas J. Bannan[1], Grant Henshaw[2], Richard Fitton[2], William Swan[2], Rongrong Wu[1], Ujjawal Arora[1], Gordon McFiggans[1]
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ID: 242 / PO2: 122

Assessing Air Pollution in Irish Towns using a Low-Cost Sensor Network

Shona O'Sullivan[1], Niall O'Sullivan[1], Vaios Moschos[2], Kirsten N. Fossum[2], Darius Ceburnis[2], Jurgita Ovadnevaite[2], John Wenger[1], Stig Hellebust[1]
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ID: 341 / PO2: 123

Low cost sensors network for PM and NO2 urban monitoring: initial and ongoing calibration and management

Davide Gallione[1], Nicole Mastromatteo[1], Davide Bertoni[4], Saverio De Vito[5], Grazia Fattoruso[5], Sofia Fellini[1], Silvia Ferrarese[4], Pietro Salizzoni[2], Silvia Trini Castelli[3], Marina Clerico[1]
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ID: 546 / PO2: 124

A Source Specific Calibration of Low-Cost Air Quality Sensors Using Machine Learning and Emission Inventories: A Case Study in Fianarantsoa, Madagascar

Rajat Sharma, **Erwann Rayssac**, **Andry Razakamanantsoa**, **Agnès Jullien**
University Gustave Eiffel, France

ID: 162 / PO2: 125

Aerosol monitoring on commercial ships and private sailing boats

Laura Köhler, **Lena Pünter**, **Andreas Herber**
Alfred Wegener Institute, Germany

ID: 753 / PO2: 126

Evaluating the performance of AE51 and MA200 micro-aethalometers during bicycle-mounted field deployment in city streets

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

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ID: 750 / PO2: 127

Evaluating the performance of the low-cost black carbon sensor bcMeter at an urban background site

Andrea Doldi[1], **Luca Pagliarulo**[1], **Ezio Bolzacchini**[1], **Luca Ferrero**[1], **Steffen Freitag**[2], **Lena Große Schute**[2], **Klara Junk**[2], **Ana Maria Todea**[3], **Christof Asbach**[3]

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ID: 584 / PO2: 128

Machine Learning-Driven PM2.5 Mapping and Hotspot Analysis Using a Large-Scale Low-Cost Sensor Network in Bihar, India

Vaishali Jain, **Malay Pandey**, **Piyush Rai**, **Sachchida Nand Tripathi**
Indian Institute of Technology Kanpur, India

ID: 1148 / PO2: 129

Miniaturized and Cost-Effective Electrochemical Sensors for Environmental Monitoring Using Additive Manufacturing

Abhishek Raj, **Ankit Sahai**, **Rahul Swarup Sharma**
Dayalbagh Educational Institute, India

ID: 192 / PO2: 130

Air mass trajectory-based monitoring network for off-line atmospheric aerosol sampling

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

ID: 907 / PO2: 131

Air quality PM sensors performances compared to conventional measurement techniques

Francesca Vichi, **Catia Balducci**, **Cristiana Bassani**, **Giulio Esposito**, **Antonietta Ianniello**, **Andrea Imperiali**, **Mauro Montagnoli**, **Mattia Perilli**, **Paola Romagnoli**, **Valerio Paolini**
Consiglio Nazionale delle Ricerche - Istituto sull'Inquinamento Atmosferico (CNR-IIA), Italy

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ID: 156 / PO2: 132

Feasibility study of a low-cost miniaturised Bio-OPC for biologically relevant fluorescent particle detection

Jianghan Tian, **Ricky Linforth**, **Thomas Dight**, **Robert Lewis**, **Warren Stanley**, **Paul Kaye**, **Chris Stopford**
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ID: 366 / PO2: 133

Occupational exposure assessment using miniaturized aerosol instruments in different workplace environments

Hanna Koponen[1], **Patrik Gran**[2], **Antti Karjalainen**[2], **Marko Hyttinen**[2], **Pertti Pasanen**[2], **Olli Sippula**[1,3]

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ID: 1164 / PO2: 134

Selective detection of NO2 at ppb concentration with small Cu3N-based sensor

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

ID: 216 / PO2: 135

Using low-cost sensors for assessing human exposure and dose

Maria Triantafillaki[1], **Sofia Eirini Chatoutsidou**[1], **Theodosios Kassandros**[2], **Stavros Cheristanidis**[3,4], **Serafim Kontos**[3,4], **Evangelos Bagkis**[2], **Kostas Karatzas**[2], **Dimitrios Melas**[4], **Mihalis Lazaridis**[1]

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ID: 328 / PO2: 136

Comparison of online (Xact) and offline (ICP-MS) measurements for trace elements in particulate matter across the EU

Petra Makorič[1], Kristina Glojek[1,2], Andres Alastuey[2], Xavier Querol[2], Andre Prevot[3], Enis Omerčić[4], Enis Krečinić[4], Damir Smajić[4], Almir Bijedić[4], Ismira Ahmović[4], Ranka Godec[6], Gordana Pehnec[6], Jean-Luc Jaffrezo[5], Gaelle Uzu[5], Sophie Darfeuil[5], Iain Rober White[1], Katja Džepina[1,3], Griša Močnik[1]

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ID: 371 / PO2: 137

Aerosol monitoring using different measurement platforms – bicycle, tram, tethered balloon, drone, low-cost sensors

Abdul Samad, Ulrich Vogt
University of Stuttgart, Germany

ID: 928 / PO2: 138

Characterization of Photoacoustic Sensors for the Measurement of Soot at Different EC/OC contents and Black Carbon in Comparison to an Aethalometer

Martin Kupper[1], Ioannis Raptis[2], Nikos Kousias[2], Herbert Reingruber[3], Michael Arndt[3], Hafiz Hashim Imtiaz[1], Martin Penz[1], Markus Knoll[1], Helmut Krasa[1], Leonidas Ntziachristos[2], Alexander Bergmann[1]

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ID: 1094 / PO2: 139

INITIAL MEASUREMENTS OF ATMOSPHERIC AEROSOL SIZE DISTRIBUTIONS FOR TRAINING A MACHINE LEARNING MODEL TO PREDICT AEROSOL LIQUID WATER AND CLOUD CONDENSATION NUCLEI

Aydan Phillip Gibbs[1], James Sherman[1], Lifei Yin[2]

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ID: 951 / PO2: 140

Large-scale Saharan dust episode in March-April 2024: study of desert aerosol loads over Potenza, southern Italy, using remote sensing and in-situ measurements

Teresa Laurita, Caterina Mapelli, Benedetto De Rosa, Francesco Cardellicchio, Michail Mytilinaios, Emilio Lapenna, Davide Amodio, Aldo Giunta, Canio Colangelo, Serena Trippetta, Nikolaos Papagiannopoulos, Aldo Amodeo, Lucia Mona
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ID: 1121 / PO2: 141

Ultra-high resolution identification methods of organosulfates in atmospheric nanoparticles from the CERN CLOUD chamber experiments

Mario Simon[1], Jenna E. DeVivo[2], Florian Ungeheuer[1], Nirvan Bhattacharyya[2], Markus Thoma[1], Felix Möller[1], Lucia Caudillo-Plath[1], Alexandria J. Stinchfield[2], Alexander L. Vogel[1], Neil M. Donahue[2], Joachim Curtius[1]

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ID: 1196 / PO2: 142

A selective electrochemical sensor for determination of H2O2 in atmospheric samples

Daniel Alba-Elena[1], María Cerrato-Alvarez[1], Lucia Fernandez-Santiso[1], Carolina Hernandez-Labrado[2], Edelmira Valero[3], María Teresa Baeza-Romero[1]

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ID: 451 / PO2: 143

Comparative Study of Aerosol Optical/Chemical Characteristics by ChAMBRe and field Campaigns.

Muhammad Irfan[1], Dario Massabò[1,2], Federico Mazzei[1,2], Paolo Prati[1,2], Tommaso Isolabella[1,2], Virginia Vernocchi[2], Marco Bunoldi[1], Elena Gatta[1]

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ID: 166 / PO2: 144

Comparison of different bioaerosol sampling techniques for qualitative analysis of poultry house microbiota using next generation sequencing (NGS)

Rafal Gorny[1], Anna Lawniczek-Walczyk[1], Malgorzata Golofit-Szymczak[1], Marcin Cyprowski[1], Agata Stobnicka-Kupiec[1], Jose Luis Perez Diaz[2]
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ID: 585 / PO2: 145

Ensuring the worldwide equivalence of measurements of nanoparticle number concentration and charge concentration: an international comparison

Andrew Brown[1], Andreas Nowak[2], Jordan Tompkins[1], Mamatha Tomson[1], Anza Waheed[2], David Godau[2], Jinsang Jung[3], Hyeongrae Kim[3], Kevin Auderset[4], Konstantina Vasilatou[4], Junjie Liu[5], Yue Liu[5], Thomas Wu[6], Lemuel Kuehsamy[7], Hiromu Sakurai[7], Yoshiko Murashima[7], Timothy Sipkens[8], Holger Gerwig[9], Wilma Travnicek[9], Sabrina Unglert[9], Kay Weinhold[10], Maik Merkel[10], Ali Wiedensohler[10]
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ID: 942 / PO2: 146

High-resolution mapping of urban ultrafine particle (UFP) and CO2 fluxes

Tobias Bitz, Stephan Weber
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ID: 1018 / PO2: 147

Field intercomparison of absorption measurements at the suburban Demokritos station in Athens

Maria Gini[1], Konstantinos Granakis[1], Stergios Vratolis[1], Evaggelia Diapouli[1], Luka Drinovec[2,3], Jesús Yus-Díez[2], Grisa Močnik[2,3], Tobias Hammer[4], Thomas Müller[5], Robin Lewis Modini[6], Jorge Saturno[7], Konstantina Vasilatou[4], Konstantinos Eleftheriadis[1]
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ID: 278 / PO2: 148

Emissions of cooking stoves and indoor air pollution levels

Henna Rinta-Kiikka[1], Juho Louhisalmi[1], Antti Karjalainen[1], Antti Väisänen[1], Marko Hyttinen[1], Nabin Subedi[1], Rejina Maskey Byanju[2], Sunil Prasad Lohani[3], Bhupendra Das[2], Ramesh Sapkota[2], Enna Mool[2], Sarvesh Pandey[3], Smika Sharma[3], Charan Bhattarai[2], Bal Krishna Paudel[2], Jarkko Tissari[1]
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ID: 642 / PO2: 149

Mass concentration intercomparison of soot generated with Mini-Cast

Amel Kort[1], Guillaume PAILLOUX[1], Benoit Sagot[2]
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ID: 985 / PO2: 150

Real-time quantification of refractory brown-carbon “tarballs” using SP2

Joel C. Corbin, Fengshan Liu, Brett Smith, Timothy A. Sipkens, Alireza Moallemi, Rym Mehri, John Liggio, Jalal Norooz Oliaee
Metrology Research Centre, National Research Council Canada, Canada

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ID: 730 / PO2: 151

QUANTIFICATION OF PURE LEVOGLUCOSAN AND PHOTOOXIDIZED LEVOGLUCOSAN AEROSOL BY AEROSOL MASS SPECTROMETRY

Liqing Hao, Aki Nissinen, Angela Buchholz, Siegfried Schobesberger, Annele Virtanen
University of Eastern Finland, Finland

ID: 435 / PO2: 152

High-Resolution Air Quality Surveillance and Emission Source Tracking with Scanning LiDAR

Seong-min Kim[1], Kwanchul Kim[1], Gahye Lee[1], Jeong-min Park[1], Sea-ho Oh[1], Min-kyung Sung[1], Sung-Jo Kim[1], Sangcheol Kim[2], Kyoungho Kim[3], Youndae Jung[3], Ilkwon Yang[3], Byung-Jin Choi[3], Sungchul Choi[4], Changgi Choi[4]
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ID: 837 / PO2: 153

Long-time-series of high-time resolution carbonaceous aerosol measurements with different in-situ measurement techniques vs. offline analysis at two background monitoring sites in Germany.

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ID: 1204 / PO2: 154

Understanding the Generation and Removal of Primary Particulate Matter: Insights from Diesel, Oil, and Metal Emissions

Ki-Joon Jeon, Jong-Sang Youn, Yen Thi-Hoang Le
Inha University, Korea, Republic of (South Korea)

ID: 895 / PO2: 155

Aerosol Particle Classification using Single-Particle Mass Spectrometry and Deep Learning for the Detection of Ship Emissions

Guanzhong Wang[1], Heinrich Ruser[1], Julian Schade[2], Seongho Jeong[2], Johannes Passig[3,4], Ralf Zimmermann[3,4], Günther Dollinger[1], Thomas Adam[2,4]
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ID: 171 / PO2: 156

Revised IMPROVE-A OC/EC Protocol Permits Gas/Diesel Analyses

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ID: 412 / PO2: 157

Online Oxidative Potential Measurements of Soluble and Insoluble Particulate Matter

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ID: 599 / PO2: 158

Catalytic stripper with plate Electrostatic Aerosol Classifier for reducing thermophoretic loss

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ID: 1077 / PO2: 159

Initial results from the first long term integrated study of aerosol liquid water content and cloud condensation nuclei in the southeastern U.S.

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ID: 1066 / PO2: 160

Electric system's insulators: a two-year Italian study on saline pollution

Mattia Borelli[1], Giorgio Santucci de Magistris[2], Claudia Schianchi Betti[2], Chiara Andrea Lombardi[1], Andrea Bergomi[1], Paola Fermo[1], Anna Maria Toppetti[3], Lucio Fialdini[3], Paolo Omodeo[3], Alessandra Balzarini[3], Irene Gini[3], Guido Pirovano[3]
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ID: 1125 / PO2: 161

LuMUB Project: A Decentralized Approach to Air Quality Monitoring through Ultrafine Particle Sensing and Blockchain Technology

Florian Huewe, Osnan Maragoto Rodriguez
nanoDUST GmbH, Germany

ID: 917 / PO2: 162

Assessing the impact of urban greenspaces on PM2.5 spatiotemporal variability in Riga, Latvia, via citizen science and low-cost sensors

Maria Kimourtzi[1], Georgios Grivas[1], Charalambos Chatzidiakos[1], Nora Gāgane[2], Sabīne Skudra[2], Aija Zučika[2], Gerid Hager[3], Todd Harwell[3], Inian Moorthy[3], Evangelos Gerasopoulos[1]
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ID: 1163 / PO2: 163

Improved Aerosol Eddy Covariance Fluxes using the ELPI+ (Electrical Low-Pressure Impactor): Preliminary Road Traffic and Sea-Spray Emission Fluxes

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ID: 260 / PO2: 164

Scattering of light with orbital angular momentum from singly trapped spherical particles

Matthew Hart, Shawn Divitt, Vasanthi Sivaprakasam
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ID: 1105 / PO2: 165

Synergies between ACTRIS and ICOS: combination of aerosol and GHS's first campaign measurements for the characterization of atmospheric composition at CIAO observatory in Tito, Potenza, Southern Italy

Antonella Buono[1], Isabella Zaccardo[1,2], Emilio Lapenna[1], Teresa Laurita[1], Francesco Cardellicchio[1], Davide Amodio[1], Canio Colangelo[1], Gianluca Di Fiore[1], Carmela Cornacchia[1], Serena Trippetta[1], Lucia Mona[1]
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ID: 927 / PO2: 166

Two Motion-Correction Approaches for Turbulent Particle Flux Measurements from a Moving Vessel in the Arctic

Florian Fröhlich[1], Theresa Mathes[1], Sabine Lüchtrath[1], Philipp Oehlke[2], Holger Siebert[2], Birgit Wehner[2], Andreas Held[1]
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ID: 450 / PO2: 167

Update of the Walking in Chamber of the Polytechnic University of Catalonia for ad hoc Aerosols studies

Claudia Grossi[1], Victoria Moreno[2], Lluis Font[2], Arturo Vargas[1]
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ID: 1212 / PO2: 168

From Reference Materials to Real Filters: Mapping Water Content in PM Using KF Titration

Dmytro Chyzhykov[1,2], Kamila Widziewicz-Rzońca[1], Piotr Oskar Czechowski[1]
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ID: 1102 / PO2: 169

Integrated study of $\delta^{13}C\text{-}CH_4$ and $\delta^{13}C\text{-}CO2$ signatures and aerosol properties as tracers of Wildfire Events: Insights from the ACTRIS-ICOS CIAO Observatory

Isabella Zaccardo[1,2], Antonella Buono[1], Emilio Lapenna[1], Teresa Laurita[1], Francesco Cardellicchio[1], Davide Amodio[1], Canio Colangelo[1], Gianluca Di Fiore[1], Serena Trippetta[1], Lucia Mona[1]
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ID: 1099 / PO2: 170

Global calibration as a possible alternative to conventional collocation calibration strategy for air quality low-cost sensor networks: Review and experience from long-term deployments

Miloš Davidović[1], Saverio De Vito[2], Maitane Iturrate-Garcia[3], Milena Davidović[4], Maja Jovanović[1], Danka Stojanović[1], Milena Jovašević-Stojanović[1], Shahin Tabandeh[5]
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ID: 909 / PO2: 171

Challenges in interpreting black carbon data from national air quality monitoring in the UK

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ID: 513 / PO2: 172

Fast analysis tool for temporal aerosol particle size and fluorescence response data tested with indoor measurements at EAC 2024 in Tampere

Yanick Zeder, Elias Graf, Philipp Burch, Erny Niederberger
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ID: 832 / PO2: 173

Urban Air Quality Monitoring: Measurement Campaigns and Key Findings

Daniela Wimmer[1], Johannes Murg[1], Martin Cresnoverh[1], Manfred Linke[1], Benedikt Tschofenik[2]
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ID: 535 / PO2: 174

An open toolkit for particle size distribution analysis

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ID: 1128 / PO2: 175

Optical Properties of Black Carbon Aerosols and Their Climate Implications in Guadalajara, Jalisco

Ernesto Reyes Villegas

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ID: 829 / PO2: 176

Annual variations and long-term air quality trends in a low-pollution, northern city

Veera Blankenstein[1], Ville Silvonen[1], Laura Salo[1], Ari Elsilä[2], Kati Skippari[2], H. Timonen[3], Topi Rönkkö[1]

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ID: 1143 / PO2: 177

Chemical, Physical and Microbial Characteristics of PM10 and PM2.5 in Urban Region of India

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ID: 851 / PO2: 178

Developing an emissions inventory for metallic aerosols in London, UK

Phillip B. Punter[1,2], David Green[1,2], Anja Tremper[2], Sean Beevers[2]

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ID: 1032 / PO2: 179

Simulation and sampling of human respiratory emission in a laboratory environment

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ID: 645 / PO2: 180

Assessing Influenza A Virus Aerostability: Insights from a Novel Bioaerosol Technology

Kennedy Peek, Allen Haddrell, Jamie F. S. Mann, Jonathan P. Reid, Andrew D. Davidson

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ID: 193 / PO2: 181

Predicting the pulmonary toxicity induced by repeated exposures to a mixture of alumina nanoparticles and HClg using in vitro air-liquid interface exposures

Maëva Cherriere[1,2], Myriam Oger[3], Suzanne De Araujo[2], Anne-Laure Favier[3], Maxime Floreani[1], Anthony Lecomte[1], Franck Robidel[1], Stéphanie Rodrigues[1], Guillaume Barbier[1], Sabine François[4], Samir Dekali[2], Ghislaine Lacroix[1], Thomas Loret[1]

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ID: 683 / PO2: 182

Increased PM Levels Enhance Minimum Leaf Conductance and Modify Transpiration Dynamics Through Stomatal Density Adjustments

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ID: 102 / PO2: 183

Inhaled Vitamin D as a Protectant Against Ozone-Induced Pathological Responses

Kevin David Schichlein[1], Syed Masood[1], Benjamin Marc Hawley[1], Arunava Ghosh[1], James Samet[2], Gregory James Smith[1], Ilona Jaspers[1]

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ID: 483 / PO2: 184

Drosophila melanogaster as a bioindicator of PM-induced oxidative stress effects

Emanuele Vaccarella[1], Flavia Cerasti[1], Caterina Tiraboschi[1,5], Michele De Rosa[2], Valentina Lucchesi[1], Fabio Sciubba[1], Daniele Porretta[1], Valentina Mastrantonio[1], Giovanna Tranfo[3], Mariangela Spagnoli[3], Lorenzo Massimi[1,4], Silvia Canepari[1,4]

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ID: 349 / PO2: 185

Alveolar in vitro model at air-liquid-interface

Anna-Katharina Hensel[1], Henri Hakkarainen[1], Laura Mussalo[2], Claire Fayad[2], Katja Kanninen[2], Pasi Jalava[1]

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ID: 181 / PO2: 186

In vitro dioxin- and PAH-like activities of particulate residential wood burning emissions: influence of appliances, combustion conditions and fuel composition

Ali HNAINO[1,2], Abd El Rahman EL MAIS[1], Serge COLLET[1], Ahmad EL-MASRI[1], Vincent FUVEL[1], Jason BARDOU[1], Adrien DERMIGNY[1], Selim AIT-AISSA[1], Francois BRION[1], Barbara DANNA[2], Alexandre ALBINET[1]

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ID: 880 / PO2: 187

Oxidative Potential of PM1, PM2.5, and PM10 in Car and Tram Tunnels: Evaluating Public Health Risks

Rakshit Jakhar[1], Katarzyna Styszko[1], Lucyna Samek[2], Katarzyna Szramowiat-Sala[1]

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ID: 409 / PO2: 188

Oxidative potential of urban aerosol and related elements in three simulated lung fluids

Hana Hlavackova

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ID: 498 / PO2: 189

Association between particle-bound reactive oxygen species and in-vitro oxidative responses induced by traffic-related urban nanoparticles

Gianluca Di Iulio[1,2], Maurizio Gualtieri[3], Matteo Rinaldi[4,5], Marco Paglione[4,5], Lorenzo Massimi[6], Silvia Canepari[6], Maria Agostina Frezzini[7], Ferdinando Pasqualini[2], Carmina Sirignano[2,4], Francesca Costabile[2,4]

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ID: 448 / PO2: 190

Anti-oxidant and anti-inflammatory properties of nanoalgosomes in a co-culture of airway bronchial cells and macrophages at the Air-Liquid Interface

Wesam Darwish[1], Giorgia Adamo[2], Mohammad Almasaleekh[1], Johannes Becker[1], Sabrina Picciotto[2], Ralf Zimmermann[1], Antonella Bongiovanni[2], Sebastiano Di Bucchianico[1]

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ID: 279 / PO2: 191

Ex-Vivo Respiratory Pharmacokinetics Model for Inhaled Therapies Using Negative Pressure Ventilation and Perfusion: A Proof-of-Concept

Juan Pablo Vasco Marin[1], Lara Leclerc[1], Nicolas Curt[1], Nathalie Prevot[1,2], Edouard Sage[3,4], Sophie Perinel[1,2], Jérémie Pourchez[1]

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ID: 405 / PO2: 192

Assessment of Polycyclic Aromatic Hydrocarbon concentrations and Black carbon levels in primary schools and residences in urban and rural Barcelona

Maria Antonia Aretaki[1], Judith Desmet[1], Angeliki Karanasiou[1], Mar Viana[1,2], Barend L van Drooge[1]

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ID: 992 / PO2: 193

PM10 chemical profiling of vehicles emissions in a Lisbon road tunnel (Portugal)

Alexandra Nunes[1], Claudia Gabriel[1], Susana Marta Almeida[1], Teresa Moreno[2], Vania Martins[1]

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ID: 153 / PO2: 194

Study in the atmospheric simulation chamber CHARME of the reactivity of monoterpenes first-generation oxidation products: Implications on air quality and climate

Sandy Solaiman[1,2], Cécile COEUR[1], Nicolas HOUZEL[1], Reem AL MAWLA[1], Manolis N. ROMANIAS[2]

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ID: 294 / PO2: 195

Investigation of the Internal Flow Dynamics of Conical Diffuser Chambers

Jeongbeen Kim[1], Yoonkyeong Ha[1], Sukbyung Chae[2], Changhyuk Kim[1,3]

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ID: 624 / PO2: 196

Chemical analysis of limonene secondary organic aerosols under high reactive nitrogen conditions for varying humidities

Willem Samuel Jacobus Kroese[1], Jinglan Fu[2,3], Yanxia Li[3], Harald Saathoff[3], Juliane Fry[4], Rupert Holzinger[1], Ulrike Dusek[2]

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ID: 883 / PO2: 197

Unraveling 2,5-Dimethylfuran Autoxidation by Ozone and OH radical: Experimental Insights from MION Orbitrap Mass Spectrometry

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ID: 118 / PO2: 198

Peroxy radical and oxidation product formation in monoterpene oxidation by nitrate radicals: insights from free-jet flowtube experiments

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ID: 652 / PO2: 199

Photochemical degradation of gaseous naphthalene/benzene and secondary organic aerosol formation for typical atmospheric conditions

Merve Polat[1,2], Amir Ben brik[3], Niall O'Sullivan[3], Maarten Kieft[5], Mixtli Campos-Pineda[4], Albert A. Ruth[4], John Wenger[3], Jakob Klenø Nøjgaard[1,2], Matthew S. Johnson[1,5]

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ID: 845 / PO2: 200

Current chemical ionization mass spectrometry (CIMS) techniques for measuring early generation peroxy radicals from monoterpene ozonolysis are prone to mischaracterization due to an artifact

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ID: 801 / PO2: 201

Computational study on HOM formation from 2,5-Dimethylfuran oxidation initiated by ozone and OH radical

Sakshi Jha[1], Rabbia Asgher[1], Siddharth Iyer[1], Prasenjit Seal[1], Avinash Kumar[1], Shawon Barua[1], Matti rissanen[1,2]

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ID: 612 / PO2: 202

Theoretical Investigation of the Reactivity of Organosulfates with OH Radical

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ID: 295 / PO2: 203

The Atmospheric Autoxidation of Mesitylene

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ID: 377 / PO2: 204

The Atmospheric Autoxidation Process of Pseudocumene

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ID: 972 / PO2: 205

Predictions of homogeneous nucleation rate in laminar and turbulent flows

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ID: 666 / PO2: 206

Microbial Ice Nucleation in Polar and Atmospheric Environments: Insights from Antarctic Precipitation and Metagenomic Datasets

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ID: 566 / PO2: 207

A DLCA methodology for simulating Brownian agglomeration of nanowire aerosols

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ID: 496 / PO2: 208

Single-droplet techniques for analysis of evaporation kinetics and particle morphology in spray dryers

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ID: 635 / PO2: 209

Controlling the Morphology of Microparticles Formed by Evaporation of Aerosol Droplets Containing Polymer Nanoparticles

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ID: 368 / PO2: 210

Roles of Mucin and Albumin in Exhaled Respiratory Droplet Evaporation and Rehydration: Implications for Airborne Disease Transmission

Yue Meng[1], Alexei Kiselev[1], Denis Duft[1], Thomas Leisner[1,2]

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ID: 1177 / PO2: 211

New cleaning model to predict the removal efficiency of 10-130 nm contaminant particles on Si wafers using microdroplet impaction

Seungwook Lee, Donggeun Lee

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ID: 1166 / PO2: 212

Sea spray aerosol emissions (1940-2023) subject to climate change: trends and variation, based on new source parameterizations, the cases of the North Sea and the Baltic Sea

Yang Liu[1,2], Douglas Nilsson[1,2], Paul Glantz[1,2]

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ID: 1056 / PO2: 213

Stiff kinetics parameter estimation using neural ordinary differential equation and collocation training

Wenqing Peng[1,2], Zhi-Song Liu[2,3], Michael Boy[1,2,3]

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ID: 809 / PO2: 214

Evaluating Collection Efficiency of a Membrane-based Sampler for Environmental DNA and Bacillus globigii Spores

Gozde Isik[1], Loic Coudron[1], Ian Johnston[1], Richard Kaye[1], Chris Stopford[1], Christabel Tan[1], Shan Goh[2], Lanka Weeasiri[1], Nikolay Dimov[1]

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ID: 1101 / PO2: 215

Development of a particle categorization for the broad representation of atmospheric measurement data with the SwisensPoleno Jupiter

Julia Burkart

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ID: 1220 / PO2: 216

Experimental study of homogeneous nucleation in bismuth vapor

Maksim Shilikhin, Einar Kruis, Ramin Rishmawi
University of Duisburg-Essen, Germany

ID: 1222 / PO2: 217

Iron's impact on SOA formed from Monoterpenes.

Sacha Fallah, Jens Top, Natasha M. Garner, Imad El Haddad, Markus Ammann, David M. Bell
PSI Center for Energy and Environmental Sciences, Switzerland

ID: 482 / PO2: 218

Carbonaceous fine aerosol in Sarajevo, Bosnia and Herzegovina: Elevated concentrations and highly polluted winter episodes

Marta Via[1], Benjamin Chazeau[2], Asta Gregorič[3], Michael Bauer[4], Kristina Glojek[5], Petra Mokorić[1], Martin Rigler[3], Peeyush Khare[4], Levi Folghera[4], Leah Williams[6], John Jayne[6], Philip Croteau[6], Almir Bijedić[7], Enis Omerčić[7], Enis Krečinić[7], Damir Smajić[7], Ismira Ahmović[7], Griša Močnik[1], Jay Gates Slowik[4], André S. H: Prévôt[4], Katja Džepina[4]
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ID: 256 / PO2: 219

Temperature effects on toluene SOA properties

Evangelia Kostenidou[1], Clément Dubois[2], Eva Johanna Horchler[2], Katja Olsen Møller Åbom[2], Ditte Thomsen[2], Mads Mørk Jensen[2], Emil Mark Iversen[2], Merete Bilde[2]
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ID: 423 / PO2: 220

Research on IoT and Deep Learning-Based Monitoring and Prediction Technology for Biological Hazards in Indoor Air

Kwangin Han, Joohyuk Park, Sohwa Shin, Sanghyun Lee, Ahmee Jeong, Sujin Son, Jiyoon Shin
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ID: 236 / PO2: 221

On Thermionic Emission Channel of Heat Transfer between Nanoparticles and Gas

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ID: 196 / PO2: 222

On the impact of Saharan dust on ice nucleating particles at high-mountain and urban environments in Southern Europe

Olga Ruiz-Galera[1], Elena Bazo[1,2], Gloria Titos[1,2], Diego Patrón[1], Alejandro Ontiveros[1], Sonia Castillo[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: 243 / PO2: 223

Ecotoxicity of PM10 from heating appliances using different biomass fuels in two dwellings

Yago Alonso Cipoli[1], Estela Vicente[1], Franco Lucarelli[2], Nora Kóvats[3], Manuel Feliciano[4], Jíri Rysavy[5], Célia Alves[1]
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ID: 970 / PO2: 224

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

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ID: 201 / PO2: 225

Determination of the initial concentration of aerosols and chemical agents at the portable air purifier test site

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CIOP-PIB, Poland

ID: 591 / PO2: 226

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: 747 / PO2: 227

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

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ID: 1034 / PO2: 228

Automatic classification of electrohydrodynamic atomization modes based on machine learning

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Evaluation of Ultrafine Particle Abatement Systems in a 125 kW Biomass Pellet Boiler

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Thin continuous polytetrafluoroethylene coatings by electrospray

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Particle emissions from the use of tobacco products

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