Conference Agenda

Session

Poster Session Thursday

Time: **Thursday, 04/Sept/2025: 5:15pm - 6:45pm**

Location: **Studium2000**

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

Presentations

Using low-cost sensors to monitor particulate matter in classrooms of a Portuguese high school

Nuno Canha[1,2], Carolina Correia[1], Sergio Mendez[1], Carla Gamelas[1,3], Miguel Felizardo[1]

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Solid fuel combustion as the dominant wintertime PM2.5 source in Irish towns: insights from the TownAir project

Vaios Moschos[1], Kirsten N. Fossum[1], Vignesh Prabhu[1], Lu Lei[1], Darius Ceburnis[1], Shona O'Sullivan[2], Niall O'Sullivan[2], Stig Hellebust[2], Colin O'Dowd[1], John Wenger[2], Jurgita Ovadnevaite[1]

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Characteristic of water-soluble inorganic ions in size-segregated aerosols of a typical industrial and mining city in central China

Hongxia Liu, Jiaquan Zhang, Changlin Zhan, Shan Liu, Ting Liu, Wensheng Xiao, Junji Cao

Hubei Polytechnic University, China, People's Republic of

High Optical and Temporal Resolution Investigations into Non-Ideal Resuspension Phenomena

Edward Neal[1], Lukesh K Mahato[1], Richard J Thomas[2], Maurice D Walker[2], Jack C Vincent[2], Simon T Parker[2], Virginia E Foot[2], Emily S Kruger[2], Jonathan P Reid[1]

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On the origins of atmospheric secondary organic aerosol (SOA): Double bonds facilitate rapid functionalization to aerosol precursors

Pyry Salomaa[1], Netta Vinkvist[1], Siddharth Iyer[2], Matti Rissanen[1,2]

[1]Department of Chemistry, University of Helsinki, Helsinki, 00014, Finland; [2]Aerosol Physics Laboratory, Tampere University, Tampere, 33720, Finland

Flavor-Induced Inflammation and Cytotoxicity in Human Aortic Smooth Muscle Cells: Implications for E-Cigarette Safety

Mariam Bitar[1], Clément Mercier[1], Valérie Forest[1], Jérémie Pourchez[1], Laurent Bertoletti[2]

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Review of the mass absorption cross-section literature for mixed atmospheric black carbon

Eija Asmi[1], Joel Corbin[2], John Backman[1], Konstantina Vasilatou[3], Ernest Weingartner[4], Krzysztof Ciupek[5], Thomas Müller[6], Arun Babu Suja[6], Griša Močnik[7,8,9], Luka Drinovec[7,8], Kostas Eleftheriadis[10], Jorge Saturno[11]

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Atmospheric New Particle Formation Enhanced by Tricarboxylic Acids

Astrid Nørskov Pedersen, Yosef Knattrup, Jonas Elm

Aarhus University, Denmark

Coagulation of combustion-generated carbonaceous nanoparticles of ethylene and ethylene/ethanol flames in an atmospheric simulation chamber

Vincenzo Liguoro[1], Virginia Vernocchi[2], Gianluigi De Falco[1], Francesca Picca[3], Fabio Sasso[3], Alessia Sannino[4], Patrizia Minutolo[1], Andrea D'Anna[3], Tommaso Isolabella[5], Paolo Prati[5], Dario Massabò[5], Mario Commodo[1]

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Effect of gas absorption on evaporation of acoustically levitated slurry droplets at constant and falling rate periods of drying

Yehonatan David Pour[1], Boris Krasovitov[1], Andrew Fominykh[1], Ziba Hashemloo[2], Abdolreza Kharaghani[2], Evangelos Tsotsas[2], Avi Levy[1]
[1]Ben-Gurion University of the Negev, Israel; [2]Otto von Guericke Universität Magdeburg

On Thermionic Emission Channel of Heat Transfer between Nanoparticles and Gas

Igor Altman[1], Igor Agranovski[2]
[1]Combustion Sciences and Propulsion Research Branch, NAWCWD, CA, USA; [2]Griffith University, Australia

Personal dose during cardiovascular exercise

Sofia Eirini Chatoutsidou, Eleftheria Chalvatzaki, Mihalis Lazaridis
School of Chemical and Environmental Engineering, Technical University of Crete, Greece

Photooxidation of Biomass Burning Emissions: Secondary Organic Aerosol Formation under varying NOx levels

Yarê Baker[1], Agata Błaziak[2], Peter Mettke[1], Laurent Poulain[1], Ricarda Gräfe[1], Mokshika Saxena[1], Simeon Schum[3], Hartmut Herrmann[1]
[1]Leibniz Institute of Tropospheric Research e.V., Germany; [2]Institute of Physical Chemistry, Polish Academy of Sciences, Poland; [3]New Mexico State University, United States of America

Time-resolved measurements reveal the evolving oxidative potential of indoor-generated aerosols under simulated photochemical ageing

Rico K.Y. Cheung[1], Aristeidis Voliotis[2], Mathilde Delaval[3], Dawei Hu[2], Joseph Bainbridge[2], Rongrong Wu[2], Raghad Aldulaymi[4], Andrew Trafford[4], Cyrill Bussy[5], James Allan[2], Gordon Mcfiggans[2], Markus Kalberer[1], Steven J. Campbell[6]
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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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Agricultural fire impacts on brown carbon during different seasons in Northeast China

Jiumeng Liu, Yuan Cheng, Xubing Cao, Yingjie Zhong
Harbin Institute of Technology, China, People's Republic of

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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Characteristics and source apportionment of water-soluble inorganic ions in TSP during the lockdown episode for epidemic outbreak of COVID-19 in Wuhan, 2020

Wen Sun[1,3], Chengkai Qu[2], Stefano Albanese[3]
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Characterization of ultrafine particle number concentration and size distribution in the school environment

Stavroula Katsikari[1], Vassiliki Vassilatou[1], Konstantinos Granakis[1], Raquel Pimenta[2], Ketlyn Oliveira[2], Susana Marta Almeida[2], Drew K. Henderson[3], Robert M.W. Ferguson[3], Heidi Salonen[4,5], Konstantinos Eleftheriadis[1], Evangelia Diapouli[1]
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Climatology of aerosol optical properties in Cyprus based on aerosol type classification from AERONET and Lidar data

Francesco Scarlatti[1,2], **Rodanthi Elisavet Mamouri**[1,2], **Argyro Nisantzi**[1,2], **Athina Savva**[1,2]
[1]Eratosthenes Centre of Excellence, Cyprus; [2]Department of Civil Engineering and Geomatic, Cyprus University of Technology, Limassol, 3036, Cyprus

Distinguishing the air quality impact from different types of stove for residential heating in central Italy

Arianna Marinelli[1,3], **Fulvio Amato**[2], **Silvia Canepari**[3], **Lorenzo Massimi**[3], **Alessandro Domenico Di Giosa**[1]
[1]Regional Environmental Protection Agency; [2]Spanish Research Council (CSIC); [3]Sapienza University of Rome

Eulerian model of dilute suspensions of electrified particles

Karim Mehrabi, Francisco Higuera
Universidad Politécnica de Madrid, Spain

Evaluating the impact of thermal conditions on emissions from tobacco heating systems

Dimitrios Zarvalis, Eleni Papaioannou, Daniel Deloglou, Kyriaki Tsortanidou, George Karagiannakis
CERTH, Greece

Exposure to PM oxidative potential and inflammatory biomarkers in vulnerable populations: the ASTHMA-FENOP and PEREX-COPD studies

Ignacio Fernández-Olmo[1], **Andrea Expósito**[1], **Juan Agüero-Calvo**[2], **Juan Luis García-Rivero**[2], **Beatriz Abascal**[2], **Carlos Antonio Amado**[2], **Marcos López-Hoyos**[3], **Miguel Santibáñez**[4]
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Influence of the acceleration of the flow on microparticle resuspension

Mélanie Baptiste[1,2], **Félicie Theron**[2], **Lionel Fiabane**[1], **Dominique Heitz**[1], **Laurence Le Coq**[2]
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Investigation of particle collisions in air-flow resuspension phenomena with 4000Hz frequency acquisition camera

Alexis Abad[1], **Célia Bonnefoy**[2], **Samuel Peillon**[1], **François Gensdarmes**[1]
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Long-term characterization of Lung Deposited Surface Area of Ultrafine Particles in Athens, Greece

Panayiotis Kalkavouras[1,2], **Georgios Grivas**[1], **Nikolaos Mihalopoulos**[1]
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Measurements of Surrogate Respiratory Sessile Droplet pH and Implications for Exhaled Respiratory Aerosol and Airborne Disease Transmission

Jianghan Tian[1], **Beiping Luo**[2], **Aidan Rafferty**[3], **Allen Haddrell**[1], **Ulrich Krieger**[2], **Jonathan Reid**[1]
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Modeling Road Traffic Contributions to PM2.5 and Particle Number with LOTOS-EUROS

Ruud Janssen, Astrid Manders, Quinten Bohte, Tilman Hohenberger, Marya el Malki, Jeroen Kuenen, Martijn Schaap
TNO, Department of Air quality and Emissions Research, Utrecht, the Netherlands

Modelling Atmospheric Cluster-to-Particle Transition

Haide Wu, Yosef Knattrup, Galib Hasan, Jonas Elm
Aarhus University, Denmark

Multi-year gradient measurements of sea spray fluxes over the Baltic Sea and the North Atlantic Ocean

Piotr Markuszewski[1,2,3,4], **E. Douglas Nilsson**[2,4], **Julika Zinke**[5,4], **E. Monica Mårtensson**[6], **Matthew Salter**[5,4], **Przemysław Makuch**[1], **Małgorzata Kitowska**[1], **Iwona Wróbel-Niedźwiecka**[1], **Violetta Drozdowska**[1], **Dominik Lis**[1], **Tomasz Petelski**[1], **Luca Ferrero**[3], **Jacek Piskozub**[1]
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Size Ratio Dependent Enhancement Factor of Ultrafine Aerosol Coagulation Rates by Van der Waals Potential

Hui Ouyang, Brandon Boren, Deepak Sapkota
The University of Texas at Dallas, United States of America

Size-resolved PM Composition and sources in Saxony, Germany: A Decadal Comparison (2013/14 vs. 2023/24)

Vanessa Engelhardt, Dominik van Pinxteren, Uwe Käfer, Manuela van Pinxteren, Hartmut Herrmann
Leibniz-Institut für Troposphärenforschung e.V. (TROPOS), Germany

Sparsity introduction in Bayesian Autocorrelation Matrix factorization for organic aerosol source apportionment

Marta Via[1], **Anton Rusanen**[2], **Jure Demšar**[3], **Yufang Hao**[4], **Jianhui Jiang**[5], **Griša Močnik**[1], **Kaspar Daellenbach**[4]

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Spatial variability of aerosol optical properties in the European Arctic

Simone Meroni[1], Dominic Heslin-Rees[3], Radovan Krejci[3], Mauro Mazzola[4], Ove Hermansen[5], Stefania Gilardoni[2]

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Using clustering approaches to dynamically determine the number of sources of organic aerosol in PMF analyses

Michelle Schneider[1], Anna Tobler[2], Francesco Canonaco[2], André S.H. Prévôt[3], David C. Green[1,4], Gang I. Chen[1]

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Airborne release fraction assessment of plutonium dioxide during glovebox fires

Delphine Costa[1], Mickaël Coutin[2], Mamadou Sow[1], Marc Piller[2], Pauline Wiszniowski[1], Guillaume Basso[2], Emmanuel Porcheron[1], Philippe Nerisson[2], Pascal Zavaleta[2]

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Atmospheric reactive nitrogen and its dry deposition regimes under emission reduction: Insights from intensive and long-term monitoring in Switzerland

Jun Zhang[1], Ali Waseem[1], Andrea Baccarini[1], Ghislain Motos[1], Hüglin Christoph[2], Siyao Yue[3], Benjamin Brem[3], Kalliopi Violaki[1], Martin Gysel-Beer[3], Jay Slowik[3], Athanasios Nenes[1]

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Comparative genome copies reduction of MS2 and T4 Bacteriophages Using UVA and UVC in a Controlled Atmospheric Chamber: Implications for Indoor Air Hygiene

Ali Mohamadi Nasrabadi[1], Diana Eckstein[2], Hassan Alkassem[1], Peter Mettke[1], Nawras Ghanem[2], René Kallies[2], Matthias Schmidt[2], Melanie Maier[3], Uwe Gerd Liebert[3], Hans Richnow[1], Hartmut Herrmann[1]

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Evaluation of the PM mitigation using a green barrier in a high traffic site

Amedeo Manuel Cefali[1,2], Niccolò Losi[2], Andrea Doldi[2], Sofia Cerri[2], Claudia Franchina[1,2], Martina Gianotti[1,2], Luca Ferrero[2], Mita Lapi[3], Ezio Bolzacchini[2]

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Gaining insights into filter-based measurements of the aerosol absorption coefficient: an integrated approach

Marcus Acton-Bond[1], Serena Barone[3], Cosimo Fratticioli[3], Tommaso Isolabella[2], Sara Lucherini[1], Dario Massabò[2], Federico Mazzei[2], Gianluigi Valli[1], Roberta Vecchi[1], Vera Bernardoni[1]

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Giant Particle Size Distribution and Composition Near and In Dust Sources

Konrad Kandler[1], Kilian Schneiders[1], Agnesh Panta[1], Mara Montag[1], Melanie Eknayan[1], Hannah Meyer[2], Martina Klose[2], Kerstin Schepanski[3], Cristina González-Flórez[4,5], Adolfo González-Romero[4], Andres Alastuey[6], Pavla Dagsson-Waldhauserová[7], Xavier Querol[6], Carlos Pérez García-Pando[4,8]

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FROM BIOMASS PELLETS TO AIR POLLUTION: HOW FUEL QUALITY DETERMINES EMISSIONS

Kamila Widziewicz-Rzońca[1], Agnieszka Drobniak[2,3,4], Zbigniew Jelonek[2,4], Maria Mastalerz[3,4], Iwona Jelonek[2,4]

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Spatial variability of air pollution from residential heating in a small settlement in the Czech Republic

Marketa Schreiberova, **Jan Komárek**, **Leona Vlasáková**
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Integrated measurements of atmospheric aerosol properties over Naples urban area using near surface and remote sensing devices

Matteo Manzo[1], **Giulia Pavese**[2], **Mariarosaria Calvello**[2], **Francesco Esposito**[3], **Aldo Giunta**[2], **Riccardo Damiano**[1], **Alessia Sannino**[1], **Salvatore Spinosa**[1], **Salvatore Amoruso**[1], **Antonella Boselli**[2]
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Investigation of coating thickness and black carbon mass absorption cross-section variation during winter campaign in Ljubljana (Slovenia)

Luka Drinovec[1,2], **Jesus Yus-Diez**[1], **Petra Makorič**[1], **Martin Rigler**[3], **John Backman**[4], **Griša Močnik**[1,2]
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Long-term composition and optical properties of Amazonian aerosols measured at the ATTO tower

Paulo Artaxo[1], **Rafael Valiati**[1], **Bruno Backes Meller**[1], **Luciana Varanda Rizzo**[1], **Sebastian Brill**[2], **Christopher Pöhlker**[2]
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Physico-chemical characterization of indoor airborne particulates emitted in plastics processing workplaces

Tommaso Rossi[1], **Luca stabile**[2], **Elisa Caracci**[2], **Donatella Pomata**[3], **Marco Giusto**[1], **Tiziana Sargolini**[1], **Adriana Pietrodangelo**[1]
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PM10 and PM2.5 variability over Italy (2021–2023): Data-driven mapping and causal inference analysis

Karam Mansour, **Matteo Rinaldi**, **Marco Paglione**, **Stefano Decesari**, **Tony C. Landi**
CNR-ISAC, Italy

Predicting the influence of the Planetary Boundary Layer at the Helmos Hellenic Atmospheric Aerosol & Climate Change (HAC)2 station using a combination of in-situ measurements and remote sensing techniques

Olga Zografou[1], **Maria Gini**[1], **Prodromos Fetfatzis**[1], **Konstantinos Grakanis**[1], **Romanos Foskinis**[2], **Carolina Molina**[3], **Christos Mitsios**[3], **Aiden Jönsson**[4], **Paul Zieger**[4], **Mika Komppula**[5], **Alexandros Papayannis**[2,6], **Athanasios Nenes**[2,3], **Konstantinos Eleftheriadis**[1]
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Source assessment of atmospheric lead reaching Ny-Ålesund (Svalbard)

Francisco Ardini, **Matilde Mataloni**, **Viola Minutoli**, **Marco Grotti**
University of Genoa, Italy

Volatility of molecular components of □Pinene SOA modulated by inorganic seed composition

David Michael Bell[1], **Natasha M. Garner**[1], **Jens Top**[1], **Jun Zhang**[1], **Francesca Salteri**[1], **Andre S. H. Prevot**[1], **Katherine R. Kolozsvari**[2], **Andre P. Ault**[2], **Sabine Luechtrath**[3], **Markus Ammann**[1], **Imad El Haddad**[1]
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Water- and methanol-extracted brown carbon in PM2.5 in southwest Europe

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A new approach for source apportionment of Black Carbon from Raman Spectroscopy

Lia Drudi[1], **Matteo Giardino**[2], **Rosalba Ignaccolo**[3], **Nicola Pronello**[3], **Rossana Bellopede**[1]
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Developing an algorithm to determine woodsmoke events

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Distinguishing Total and Solid Particle Emissions from Household and Office Devices using a Catalytic Stripper

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Elevated NOx concentration in urban plumes increases volatility of secondary organic aerosol over the suburban region

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

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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Transport and air pollution exposure around schools

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Characterizing Aerosol Optical Properties at the Payerne Monitoring Site Using Polarimetric Observations

Aliki Christodoulou[1], Barbara Bertozzi[1], Zhongxia Sun[1], Qizhi Xu[1], Leila Héloise Simon[1], Benjamin Tobias Brem[1], Robin Lewis Modini[1], Martine Collaud Coen[2], Martin Gysel-Beer[1]
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Chemical characterization of construction-related sources of respirable urban road dust and its potential biological effects

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Comparison of Oxidation Flow Reactor and Atmospheric Chamber Produced Secondary Organic Aerosol with Varying Aerosol Seed Concentration

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Germicidal effects of UV irradiation on viral aerosols

Diana Eckstein[1,3], Oliver Lechtenfeld[1], René Kallies[1,4], Matthias Schmidt[1], Aaron Bernstein[1], Hans Hermann Richnow[1,2], Ali Mohamadi Nasrabadi[2], Hartmut Herrmann[2], Melanie Maier[3], Nawras Ghanem[1]
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Hunting for the sources of rural air pollution: waste burning

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Investigating the viable to total respiratory particles concentration ratio using a BioTrak in various indoor environment configurations

Lyes Ait Ali Yahia, Evelyne Géhin, Isabelle Harbelot
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Investigation of Optical Properties of Different Fuels Diesel Exhaust by an Atmospheric Simulation Chamber experiment

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ML analysis for absorption measurements correction schemes – A test study

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Optical properties and size distributions of particulate matter produced by diesel B7 and Hydrotreated Vegetable Oil combustions in an atmospheric simulation chamber

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PM10 Source assesment in rural olive areas of Spain: Implications for 2030 Air Quality Standards

Agustina Romero Pereifa, Pablo Pérez-Vizcaino, Ana M. Sánchez de la Campa, Daniel A. Sánchez-Rodas, Jesús De la Rosa
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Source Apportioned Particle Number Concentrations during Winter Season before COVID19 lock in the City Center of Belgrade, Serbia

Zeljko Cirovic, Danka Stojanovic, Marija Zivkovic, Maja Jovanovic, Milos Davidovic, Milena Jovasevic-Stojanovic
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Submicrometric aerosol using Q-ACSM and Positive Matrix Factorization at remnants of the Atlantic Forest in Metropolitan Area of São Paulo (MASP)

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Three-wavelength Lidar for aerosol optical and microphysical properties characterisation at Mount Etna (Italy): system upgrades and first measurement results

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Understanding pesticides monitoring with local agricultural uses and practices

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Black carbon emission factors of household wastes co-burned with firewood in stoves

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Black carbon pollution and sources in gas-heated Moscow megacity: Upgrade to European phenomenology

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

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PFAS monitoring in Flanders, Belgium

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Quantifying Responsibility for Cross-state Air Pollution: An airshed approach

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A Multi-year Characterization of Black Carbon at Regional, Urban, and Urban Background Locations in Qatar

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Aging of Wildfire Particulate Matter and Its Impacts on Toxicity and Biological Responses

Melanie Stegmann[1], Jeroen Buters[1], Hendryk Czech[2], Abdulghani Ebtini[2], Olga Popovicheva[3], D. Cernov[4], Alexander Kozlov[5], Ralf Zimmermann[2], Carsten Schmidt-Weber[1], Inga Wessels[1]

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

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Analysis of the spatial-temporal variability of chemical-physical properties of PM2.5 in two sites of Southern Italy

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Assessing indoor and outdoor air quality interactions in urban environments: a case study in Bologna within the ECOSISTER Project

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BC concentrations and spectral absorptions at regional background stations in Greece

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Brown carbon characterization and impacts of absorbing aerosol in Eastern Mediterranean

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CAPE-k CHEM: Precursors vapors and chemical composition of the Southern Ocean aerosols at Cape Grim

Jakob Boyd Pernov, Joel Alroe, Juha Sulo, Zijun Li, Zoran Ristovski, Branka Miljevic

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

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Characterization of a Novel Laminar-Flow Oxidation Reactor for Simulating Atmospheric Multiple-Day Oxidation

Hannah Magdalena Beckmann, Markus Leiminger, Andreas Klinger, Martin Graus, Tobias Reinecke, Markus Müller

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Characterization Of Gas and Particle-Phase Chemistry from Rice Straw Burning and Aerosol Aging Under Light and Dark Conditions in EUPHORE Chambers

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Collision rates of multiply-charged aerosol particles in the CERN CLOUD chamber

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Comparison of ATLID L2A Products with Ground-Based Aerosol Optical Properties and Classification at the Potenza ACTRIS Site

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Comparison of the Four-Wavelength Photoacoustic Spectrometer PAAS-4λ and Aethalometer AE33 for Long-Term Measurements in Rural Northern and Southern Finland

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Comparison of ultrafine particles volatility at a traffic site and a suburban station in Athens, Greece

Christina Spitieri, Maria Gini, Konstantinos Eleftheriadis
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Contamination of the soils with dust fallout from a smelting site in Lubumbashi city, RD Congo

John Kasongo[1,2], Laurent Alleman[1], Bruno Malet[1], Jean Marie Kanda[2], Arthur Kaniki[2], Véronique Riffault[1]
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Cytotoxicity, intracellular oxidative stress, and acellular oxidative potential of PM2.5: a study in South Italy

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Detection and 23-year climatology of Saharan dust at the high-altitude site Jungfraujoch

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Determining source specific organic aerosol and black carbon emission rates by coupling source apportionment and atmospheric dynamics

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

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

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

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Evaluating ALI Cell Exposure in Transient Driving Cycles in CNG vehicle

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Evaluation of the toxicological effects of primary and aged logwood stove emissions on alveolar cells exposed at the air-liquid interface

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Experimental determination of the Atmospheric Heating Rate due to Light Absorbing Aerosols at the Jungfraujoch high altitude remote station

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Exploring the chemical aging of urban organic emissions: Results from the POSEIDON campaign

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Firefighter exposure and health risks: linking exposure concentrations to health outcomes

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Fractional Soaring of Bacteria and Fungi Aerosols in a Chicken Farm

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Glycolic Acid Sulfate Formation in Aqueous Aerosols Analyzed with Hydrophilic Interaction Liquid Chromatography-Mass Spectrometry

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Impact of War on Air Quality: PM2.5 Aerosol Composition in Beirut During the 2024 Conflict

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In vitro toxicological evaluation at the air-liquid interface of aerosols generated by POD vaping device using nicotine salts

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Influence of NOx on the physical and chemical properties of isoprene SOA

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Investigation of the properties and factors affecting concentrations and size distribution of ultrafine aerosol particles in the city of Zagreb, Croatia

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Key Factors Affecting Indoor PM2.5 in New Dwellings in London

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Measurements of Black Carbon Concentration in Sofia's urban Atmosphere

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Molecular-Scale Mechanism of Adsorption and Ice Nucleation on the Copper Oxide (CuO) Surface

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Particle emissions from the use of tobacco products

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Particulate air pollution in the heart of the European Union: lessons learned from SAFICA 2017-2018 and SAAERO 2022-2023 projects

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Physico-optical properties of atmospheric aerosols over North-East India

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Ship emissions profiles from ambient measurements in Dublin Port

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Site-selectivity of Phl p 5 modifications and their influence on the inflammatory potential

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Source Apportionment of wide range particle number concentration during summertime in Istanbul

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Temperature effects on toluene SOA properties

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Tracing Sources of Elemental PM2.5 in the Sarajevo Basin: Results from the SArajevo AEROsol Experiment (SAAERO)

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Urban particulate matter SRM 1648 as a reference material for Oxidative Potential determination

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A Novel Breath-Taking Hood for COVID-19

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Analysis of aerosol optical properties using aethalometer and nephelometer over 3 years in an urban and suburban places

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Assessing human exposure to air pollution in microenvironments using portable Low-Cost Sensor units

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Assessment of children's exposure to airborne microorganisms indoors

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Biomonitoring polycyclic aromatic hydrocarbon levels in domestic kitchens using commonly grown culinary herbs

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Characterization of physical, chemical, and toxicological properties of fine Particles emitted from pork and mackerel Grilling

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Chemical characterization of atmospheric aerosols in Antarctica

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CHEMICAL COMPOSITON AND SOURCE APORTIONMENT OF PM10 IN TRAFFIC MONITORING STATIONS IN THE CITY OF SEVILLE

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CIAO - CNR-IMAA Atmospheric Observatory: the first year of aerosol in-situ measurements

Teresa Laurita, Caterina Mapelli, Francesco Cardellicchio, Canio Colangelo, Emilio Lapenna, Serena Trippetta, Davide Amodio, Lucia Mona

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Comparison of oxidative potential and composition of fine (PM2.5) and ultrafine (PM0.1) particles at an urban and a background site in Greece

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Contamination of the atmosphere with size segregated PMx in selected seaports of northern Europe and on transects between them

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Cytotoxicity assessment of ambient air aerosol using a novel "Cells-on-Particles" in vitro model

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Emission of airborne particles from 3D printing

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Enhancing Air Quality through Stricter Regulations on Ship Fuel Oil in East China

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HIGH-TEMPORAL AND SPATIAL RESOLUTION MONITORING OF VOLATILE ORGANIC COMPOUNDS (VOCs) IN THE COMPLEX INDUSTRIAL AND PORT AREA OF TARANTO (ITALY)

Valentina Pizzillo, Jolanda Palmisani, Alessia Di Gilio, Marirosa Rosaria Nisi, Lucia Pastore, Miriana Cosma Mazzola, Gianluigi de Gennaro
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Impact of residential biomass burning emissions on the wintertime particulate pollution in the Guanzhong Basin, China: a case study

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Neural Network Interatomic Potentials for Atmospheric Chemistry

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Particle number and black carbon concentrations in Helsinki – spatial variation and trends

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PM10 Composition in an African Megacity: Weekly and Monthly Trends

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PM2.5 in European Classrooms: A Comparative Study

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Regional and Long-Range Transport Sources of PM2.5 Identified in Seoul, South Korea

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Supervised Machine Learning Approaches for Black Carbon Estimation in Rural Areas

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The effect of biotransformation on the toxicity and clearance of iron oxide in an inhalation toxicity study

Songyeon Kim, Wan-Seob Cho
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The role of the atmosphere in the contamination of the sea surface microlayer with heavy metals in selected seaports of northern Europe and on transects between them

Adam Krzysztofik[1], Anna Waleczek[1], Morgane Perron[2], Matthieu Waeles[2], Anita Lewandowska[1]

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Traffic emissions and air quality in Alpine regions: a two-site study on the Mont Blanc Tunnel closure

Henri Diémoz[1], Tiziana Magri[1], Jean-Luc Jaffrezo[2], Sophie Darfeuil[2], Gaëlle Uzu[2], Vy Ngoc Thuy Dinh[2], Guillaume Brulfer[3], Annachiara Bellini[1], Manuela Zublena[1]

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Workplace assessment: inhalable particles formed during the laser ablation of hazardous GaAs materials

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A Numerical Approach for Calculating Mass Diffusivity of Molecules and ions in Gas Media Using the Two Temperature Approximation.

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Acute episodes of particulate matter pollution: the role of day-night atmospheric vertical stratification

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Aerosol light absorption alleviates particulate pollution during wintertime haze events

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Alternative approach to the determination of Cr(VI) in a Cr(III)-rich particulate matter for occupational exposure assessment

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Ammonia and ammonium nitrate in the Po Valley: monitoring, sources, and impacts on Air Quality

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Assessing chemical PM10 concentrations in school settings over two seasons

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BIOINFO – the internet database on risks associated with exposure to harmful biological aerosols in the work environment

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Chemical Composition of Deposition Particles in the Riotinto Mining District (Huelva, Spain)

Vanesa Vásquez, Pablo Pérez-Vizcaino, Ana M Sánchez de la Campa, Daniel A Sánchez-Rodas, Jesús De la Rosa

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Comparison of statistical spatial modelling and machine learning algorithm to assess population exposure to PM10 and PM2.5

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Correction of CAMS PM10 Reanalysis Improves AI-Based Dust Event Forecast

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Determination of Tire-road Wear Particle (TRWP) Emission Factor Under Realistic On-road Driving Conditions

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Efficient numerical analysis for performance evaluation of an electrostatic precipitator under varied jet flow velocity profiles

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Exploring Short-Term Exposure to Traffic-Related Air Pollution during Bicycle Commuting

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HIGH TEMPORAL AND SPATIAL RESOLUTION MONITORING APPROACH FOR INDOOR AIR QUALITY EVALUATION IN NATURALLY VENTILATED CHURCHES

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

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InAPI: Indoor air pollution inventory tool to visualise activity-based concentrations and emission rates of pollutants for the UK

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MOF induced Perovskite for Cleaner Energy Production

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Monitoring of size distribution of ultrafine particles in Tuscany Region

Chiara Collaveri, Bianca Patrizia Andreini, Fiammetta Dini, Dennis Dalle Mura, Roberto Fruzzetti, Elisa Bini, Stefano Fortunato, Marina Rosato
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Origin and hourly variation of metals and metalloids in industrial and mining areas of Huelva (SW Europe)

Pablo Pérez-Vizcaíno, Ana María Sánchez de la Campa, Daniel Sánchez-Rodas, Jesús Damián de la Rosa
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PM10 concentrations at different locations in the Dominican Republic

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

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Potential effect of inhalation exposure to the organic and inorganic constituents of ambient PM2.5 could modulate Amyotrophic Lateral Sclerosis progression

Sai Phalguna Kanikaram, Durga Prasad Patnana, Piyush Kumar, Vijay Sai Krishna Cheerala, Venketesh Sivaramakrishnan, Prashant Tripathi, Boggarapu Praphulla Chandra
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Rebound of Aerosol Particles in Filtration Process: Experimental and Computational Analysis

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Relationship between atmospheric electric field, precipitation and air ions

Marko Vana, Urmas Hõrrak, Aare Luts, Kaupo Komsaare, Heikki Junninen
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Size-resolved condensation sink in different urban environments

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Size-resolved microphysical and optical properties of atmospheric aerosols in an urban area of the northern Tibetan Plateau

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Statistical evaluation of particulate matter (PM1) concentrations in indoor and outdoor air of households in Zagreb, Croatia

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The contribution of chemical components and the particle core to the toxicity of diesel exhaust particles

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The Impact of COVID-19 Restrictions on Airborne Concentrations of Contaminants of Emerging Concern in Milan (Italy): The Case of Cocaine

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Utilization of Airmodus Condensation Particle Counters in the Net4Cities Network for Long-Term Air Quality Monitoring

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Enhancing Information on COPD Exacerbations Through the Integration of Qualitative Approaches in Non-Hospitalized Patients with Mild COPD

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Estimating PM2.5 Concentrations in Classrooms Installed with Fresh Air Units Through the Determination of the Indoor PM2.5 Generation Rate and Non-Ventilation Removal Rate

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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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Air quality assessment on the central campus of the national University of Equatorial Guinea: aerosol monitoring and its impact on the university community

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Analysing bioaerosols regarding their impact on human health in freely-ventilated pig and cattle barns

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Assessment of measures to reduce the impact of climate change on indoor air quality

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Can air purifiers remove radioactive aerosol particles from household air in radiation hazard situations?

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Changes in cholesterols profile in THP-1 cells and mice lung tissue after exposure to PbO nanoparticles

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Characteristics of Particle-bounded Air Toxic Emissions and Exposure Risk By Cogeneration System Using Solid Waste Recovered Fuel

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Citizen Science and Nature-Based Solutions to Reduce Particulate Matter Exposure in Schools

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Comparison of Airborne In-Situ and Ground-/Satellite-Based LIDAR-Derived Aerosol Light Extinction Coefficients During the JATAC/CAVA-AW Campaigns in 2021 and 2022

Marija Bervida Mačak[1], Jesus Yus-Díez[1], Sangita Gautam[1], Luka Drinovec[1,2], Uroš Jagodič[2], Blaž Žibert[2], Matevž Lenarčič[3], Eleni Marinou[4], Peristera Paschou[4], Nikolaos Siomos[5], Holger Baars[6], Ronny Engelmann[6], Annett Skupin[6], Athina Augusta Floutsi[6], Cordula Zenk[7,8], Thorsten Fehr[9], Griša Močnik[1,2]
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Effect of air purifiers on indoor air pollution in beauty salons

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Environmental contamination of antibiotics in Swedish hospitals

Carina A Nilsson[1], Elizabeth Huynh[1], Dallal Rashdan[1], Andreas Tinnert[1], Maria Hedmer[1,2], Monica Kåredal[1,2]
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Estimating the growth characteristics of commonly used pesticide (Glyphosate) aerosols

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Experimental study of aerosol emission and flow exiting a wound during mock-up tracheostomy operations

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Exploring the Impact of Bioaerosols: Pollen, Cyanobacteria, Microalgae and Fungi in Diverse Environments

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Exposure to particulate matter during rural, urban and highway asphalt work

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Exposure to traffic-related particulate matter in schools and hospitals in a city quarter

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Five-year trend of levoglucosan levels in winter at the urban station in Zagreb, Croatia

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Green Screen as a Nature-Based Solution for Urban Air Quality Improvement

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How can we determine the level of particles that impact our health? Development of laboratory studies with the PolluRisk platform.

Ambre Delater[1], Mathieu Cazaunau[2], Edouard Pangui[2], Juan Camilo Macias[1], Lucy Gérard[1], Elie Al Marj[1], Clément Buissot[3], Audrey Der Vartanian[3], Carole Planes[4,5], Nicolas Voituron[4], Sophie Lanone[3], Patrice Coll[1]

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Impact of Return Air Ratios and Filtration on Airborne Infection Risk in Healthcare Settings

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

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In-human performance characterisation of laparoscopic surgical smoke management technologies on the example of sleeve gastrectomy

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Indoor air quality at the Sephardic Museum (Toledo, Spain): PM and bioaerosol study

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Indoor air quality in school: Key influencing factors

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Indoor air quality in schools of Malabo, Equatorial Guinea: health risks and environmental factors in the African context

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Industrial particulate matter, characterization and collection for an animal-free prediction of nanomaterial-induced adverse outcomes

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Investigation of fungal microbiome in indoor environments of public-use facilities in Korea

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Modified Cascade Impactor for Increased Sampling Time and Aerosol Collection on Wet Surfaces

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Occupational inhalation exposure to welding fumes

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ODESSA: A collaborative WebGIS platform for predicting hospital admissions related to air pollution exposure

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Overview of indoor air pollution measurements in elementary schools in Denmark: a case study

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Particle emissions from dry herbs vaping

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

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Performance Analysis of Nebulizers for Intraperitoneal Aerosolized Drug Delivery

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PM in restaurant kitchen air - preliminary results

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PM-related organic and elemental carbon in hair and nail salons in Poland

Patrycja Rogula-Kopiec[1], Wioletta Anna Rogula-Kozłowska[2], Jan Bihałowicz[2], Artur Badyda[3], Kamila Widziewicz-Rzońca[1], Barbara Mathews[1], Grzegorz Majewski[4], Piotr Oskar Czechowski[1]
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Pollution Routes: Ship Emissions Impact on Volatile Organic Compounds in the Atmosphere

Marirosa Rosaria Nisi, Alessia Di Gilio, Jolanda Palmisani, Valentina Pizzillo, Lucia Pastore, Miriana Cosma Mazzola, Annalisa Marzocca, Gianluigi de Gennaro
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Pseudomonas spp. in metalworking fluids – potential bioaerosol contamination of occupational environment in metal industry and phage-based biocontrol method

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Real-Time Detection of Dusts from Narcotics using Single-Particle Mass Spectrometry

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

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Respiratory aerosol emission during various phonatory tasks

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Secondary organic aerosol formation potential from vehicles under real-world driving conditions in a tunnel

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Shape factor characterization of dry powder aerosol drugs

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Spatial Distribution and Concentration of BaP in PM10 Across Six Locations in Croatia

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Study of drug exposure during magistral preparation of medicine

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Temporal variability of PM_{10} and PM2.5 in Puerto Plata, Dominican Republic (2020-2024)

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Urban Pollution Island (UPI) for ultrafine particles – characteristics and influencing factors

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Use of green infrastructure as filtration panels for biological and mineral aerosols

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Wood sawing related emissions - Evaluation of the toxicity on nasal and bronchial cells

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