Conference Agenda

Session

Poster Session Thursday

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

Location: **Studium2000 Building5**

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

Presentations

PO3: 1

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]

[1]Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico, Universidade de Lisboa, 2695-066 Bobadela LRS, Portugal; [2]HyLab - Green Hydrogen Collaborative Laboratory, Central Termoeléctrica, 7520-089 Sines, Portugal; [3]Instituto Politécnico de Setúbal, Escola Superior de Tecnologia de Setúbal, 2914-508 Setúbal, Portugal

PO3: 2

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]

[1]Centre for Climate and Air Pollution Studies, Physics, School of Natural Sciences, University of Galway, University Road, Galway H91 CF50, Ireland; [2]School of Chemistry & Environmental Research Institute, University College Cork, College Road, Cork T12 YN60, Ireland

PO3: 3

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

PO3: 4

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]

[1]University of Bristol, United Kingdom; [2]Defence Science and Technology Laboratory, United Kingdom

PO3: 5

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

PO3: 6

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]

[1]Mines Saint Etienne, France; [2]CHU de Saint Etienne

PO3: 7

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]

[1]Finnish Meteorological Institute, Finland; [2]Metrology Research Centre, National Research Council Canada, Ottawa, Canada; [3]Laboratory Particles and Aerosols, Federal Institute of Metrology METAS, Bern, 3003, Switzerland; [4]University of Applied Sciences and Arts Northwestern Switzerland, CH-5210 Windisch, Switzerland; [5]Air Quality and Aerosol Metrology Group, National Physical Laboratory, Teddington, TW11 0LW, UK; [6]Atmospheric Microphysics Department, Leibniz Institute for Tropospheric Research, 04318 Leipzig, Germany; [7]Center for Atmospheric Research, University of Nova Gorica, Nova Gorica, 5270, Slovenia; [8]Haze Instruments d.o.o., Ljubljana, 1000, Slovenia; [9]Department of Environmental Sciences, Jozef Stefan Institute, Ljubljana, 1000, Slovenia; [10]Institute of Nuclear Technology and Radiation, NCSR Demokritos, Paraskevi, Attiki, 15310, Greece; [11]Physikalisch-Technische Bundesanstalt, 38116 Braunschweig, Germany

PO3: 8

Atmospheric New Particle Formation Enhanced by Tricarboxylic Acids

Astrid Nørskov Pedersen, Yosef Knattrup, Jonas Elm

Aarhus University, Denmark

PO3: 9

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]

[1]STEMS-CNR, Italy; [2]INFN, Italy; [3]DICMAPI, Italy; [4]Dipartimento di Fisica "Ettore Pancini", Unina, Italy; [5]Dipartimento di Fisica, Unige and INFN, Italy

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PO3: 10

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

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PO3: 11

Personal dose during cardiovascular exercise

Sofia Eirini Chatoutsidou, Eleftheria Chalvatzaki, Mihalis Lazaridis

School of Chemical and Environmental Engineering, Technical University of Crete, Greece

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PO3: 12

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

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PO3: 13

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]

[1]Department of Environmental Sciences, University of Basel, 4056 Basel, Switzerland; [2]Centre for Atmospheric Science, Department of Earth and Environmental Sciences, University of Manchester, Manchester M13 9PL, United Kingdom; [3]Joint Mass Spectrometry Center (JMSC) at Comprehensive Molecular Analytics (CMA), Helmholtz Zentrum München, Munich, 85764, Germany; [4]Division of Cardiovascular Science, School of Medical Sciences, Faculty of Biology Medicine and Health, University of Manchester, Manchester Academic Health Science Centre, Manchester M13 9PL, United Kingdom; [5]Lydia Becker Institute of Immunology and Inflammation, Faculty of Biology, Medicine and Health, University of Manchester, Manchester Academic Health Science Centre, Manchester M13 9PL, United Kingdom; [6]MRC Centre of Environment and Health, Environmental Research Group, Imperial College London, London W12 0BZ, United Kingdom

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PO3: 14

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

PO3: 15

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]

[1]School of Environmental Science and Engineering, Hubei Polytechnic University, Huangshi, 435003, China; [2]State Key Laboratory of Biogeology and Environmental Geology, China University of Geosciences, Wuhan, 430074, China; [3]Department of Earth Sciences, Environment and Resources, University of Naples Federico II, Naples, 80125, Italy

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PO3: 16

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

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PO3: 17

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

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PO3: 18

Eulerian model of dilute suspensions of electrified particles

Karim Mehrabi, Francisco Higuera

Universidad Politécnica de Madrid, Spain

PO3: 19

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

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

PO3: 20

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]
[1]Departamento de Ingenierías Química y Biomolecular, Universidad de Cantabria, Spain; [2]Division of Pneumology, Hospital Universitario Marqués de Valdecilla, IDIVAL; [3]Division of Immunology, Hospital Universitario Marqués de Valdecilla, IDIVAL; [4]Global Health Research Group, Faculty of Nursing, Universidad de Cantabria; IDIVAL, Spain

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PO3: 21

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]
[1]OPAALE Research Unit, INRAE, Rennes, 35044, France; [2]GEPEA, CNRS, IMT Atlantique, Nantes, 44300, France

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PO3: 22

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]
[1]Autorité de Radioprotection et de Sûreté Nucléaire, France; [2]UMR CNRS 6614 CORIA, France

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PO3: 23

Long-term characterization of Lung Deposited Surface Area of Ultrafine Particles in Athens, Greece

Panayiotis Kalkavouras[1,2], Georgios Grivas[1], Nikolaos Mihalopoulos[1]
[1]National Observatory of Athens, Greece; [2]Department of Environment, University of the Aegean, Mytilene, Greece

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PO3: 24

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]
[1]School of Chemistry, University of Bristol, Bristol, BS8 1TS, United Kingdom; [2]Institute for Atmospheric and Climate Science, ETH Zürich, CH-8092, Zürich, Switzerland; [3]Physical and Theoretical Chemistry Laboratory, South Parks Road, OX1 3QZ, United Kingdom

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PO3: 25

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

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PO3: 26

Modelling Atmospheric Cluster-to-Particle Transition

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

PO3: 27

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]
[1]Institute of Oceanology Polish Academy of Sciences, Poland; [2]Department of Environmental Science, Stockholm University, Stockholm, Sweden; [3]University of Milano-Bicocca, Milan, Italy; [4]Bolin Centre for Climate Research, Stockholm, Sweden; [5]Baltic Sea Centre, Stockholm University, Stockholm, Sweden; [6]Uppsala University, Uppsala, Sweden

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PO3: 28

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

PO3: 29

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

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PO3: 30

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]
[1]Center for Atmospheric Research, University of Nova Gorica, Ajdovščina, 5270, Slovenia; [2]Atmospheric Composition Research, Finnish Meteorological Institute, 00101 Helsinki, Finland; [3]Faculty of Computer and Information Science, Tržaška Cesta 25, 1000 Ljubljana,

Slovenia; [4]Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, 5232 Villigen PSI, Switzerland; [5]School of Ecological and Environmental Sciences, East China Normal University, 200241, Shanghai, China

PO3: 31

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]

[1]Department of Environmental Sciences, Informatics and Statistics, Università Ca' Foscari, Mestre, 30100, Italy; [2]Institute of Polar Sciences, National Research Council, Milan, 20156, Italy; [3]Department of Environmental Science, Stockholm University, Stockholm, 10691, Sweden; [4]Institute of Polar Sciences, National Research Council, Bologna, 40129, Italy; [5]Norwegian Institute for Air Research, Kjeller, 2027, Norway

PO3: 32

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]

[1]MRC Centre for Environment and Health, Environmental Research Group, Imperial College London, London, W12 0BZ, UK; [2]Datalystica Ltd., Park innovAARE, Villigen, Aargau 5234, Switzerland; [3]PSI Center for Energy and Environmental Sciences, Paul Scherrer Institute, 5232 Villigen, Switzerland; [4]NIHR HPRU in Environmental Exposures and Health, Imperial College London, UK

PO3: 33

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]

[1]Laboratory of Atmospheric Processes and their Impacts (LAPI), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland; [2]Empa, Swiss Federal Laboratories for Materials Science and Technology, 8600 Dübendorf, Switzerland; [3]PSI Center for Energy and Environmental Sciences, 5232 Villigen PSI, Switzerland

PO3: 34

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]

[1]Leibniz Institute for Tropospheric Research e.V. (Leibniz-Institut für Troposphärenforschung e.V.), Germany; [2]UFZ, Department of Environmental Microbiology, Helmholtz Centre for Environmental Research, Permoserstrasse 15, 04318 Leipzig, Germany; [3]Institute of Virology, Faculty of Medicine, Leipzig University, Johannisallee 30, 04103 Leipzig, Germany

PO3: 35

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]

[1]RSE S.p.A., Italy; [2]University Milano-Bicocca, Italy; [3]Fondazione Lombardia per l'Ambiente, Italy

PO3: 36

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]

[1]Department of Physics – Università degli Studi di Milano and INFN, Milan, Italy; [2]Department of Physics – Università degli Studi di Genova and INFN, Genoa, Italy; [3]Department of Physics and Astronomy, University of Florence and INFN - Florence, Sesto F.no (FI), Italy

PO3: 37

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]

[1]Technical University Darmstadt, Institute of Applied Geosciences, Darmstadt, Germany; [2]Karlsruhe Institute of Technology (KIT), Institute of Meteorology and Climate Research, Troposphere Research (IMKTRO), Germany; [3]Freie Universität Berlin, Institute of Meteorology, Berlin, Germany; [4]Barcelona Supercomputing Center (BSC), Barcelona, Spain; [5]Danish Meteorological Institute (DMI), Copenhagen, Denmark; [6]Institute of Environmental Assessment and Water Research – Consejo Superior de Investigaciones Científicas (IDAEA-CSIC), Barcelona, Spain; [7]Agricultural University of Iceland, Environmental Sciences, Reykjavik, Iceland; [8]Catalan Institute for Research and Advanced Studies (ICREA), Barcelona, Spain

PO3: 38

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]

[1]Institute of Environmental Engineering, Polish Academy of Sciences in Zabrze, M. Skłodowskiej-Curie 34 St, 41-819 Zabrze, Poland; [2]University of Silesia in Katowice, Faculty of Natural Sciences, Będzińska 60 St, 41-200 Sosnowiec, Poland; [3]Indiana University, Indiana Geological and Water Survey, 1001 E. 10th St, Bloomington, IN 47405, United States; [4]Centre for Biomass Energy Research and Education, University of Silesia in Katowice, Będzińska 60 St, 41-200 Sosnowiec, Poland

PO3: 39

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

Marketa Schreiberova, Jan Komárek, Leona Vlasáková
Czech hydrometeorological Institute, Czech Republic

PO3: 40

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]
[1]University of Nova Gorica, Slovenia; [2]Haze Instruments d.o.o., Slovenia; [3]Aerosol d.o.o., Slovenia; [4]Finnish Meteorological Institute, Finland

PO3: 41

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]
[1]Institute of Physics, University of Sao Paulo, Brazil; [2]Multiphase Chemistry Department, Max Planck Institute for Chemistry, 55128 Mainz, Germany

PO3: 42

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]
[1]C.N.R. Institute of Atmospheric Pollution Research, Monterotondo St., Rome, 00015, Italy; [2]University of Cassino and Southern Lazio Dep. of Civil and Mechanical Engineering, Cassino (FR), 03043, Italy; [3]Italian Workers' Compensation Authority, Rome, 00143, Italy

PO3: 43

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

PO3: 44

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]
[1]Environmental Radioactivity & Aerosol Tech. for Atmospheric & Climate Impacts, INRaSTES, National Centre of Scientific Research "Demokritos", Ag. Paraskevi, 15310, Greece; [2]LAPI, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland; [3]Institute for Chemical Engineering Sciences, Foundation for Research and Technology, Patras, Greece; [4]Department of Environmental Science, Stockholm University, Stockholm, Sweden; [5]Finnish Meteorological Institute, Kuopio, FI-70211, Finland; [6]Laser Remote Sensing Unit, Physics Department, National Technical University of Athens, GR-15780 Zografou, Greece

PO3: 45

Source assessment of atmospheric lead reaching Ny-Ålesund (Svalbard)

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

PO3: 46

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]
[1]PSI Center for Energy and Environmental Sciences, Paul Scherrer Institute (PSI), 5232 Villigen, Switzerland; [2]Department of Chemistry, University of Michigan, Ann Arbor, Michigan 48109, United States; [3]Environmental Chemistry and Air Research, Technische Universität Berlin, 10623 Berlin, Germany

PO3: 47

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]
[1]Department of Environment, Land and Infrastructure Engineering (DIATI), Polytechnic of Turin,; [2]Department of Applied Science and Technology (DISAT), Polytechnic of Turin; [3]Department of Economics and Statistics "Cognetti de Martiis", University of Turin

PO3: 48

Developing an algorithm to determine woodsmoke events

Daniëlle van Dinther, Paula C.P. Bronsveld, Marcus J. Blom, Harmen van Mansom, Gerrit Jan de Bruin, Marc van Dijken
Environmental Modelling Sensing and Analysis, TNO, Petten, The Netherlands

PO3: 49

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

Paulus S. Bauer[1], Vincius Berger[1], Eda Sorani[1], Hans-Joachim Schulz[1], Adam Boies[1,2], Jacob Swanson[1,3]
[1]Catalytic Instruments GmbH & Co.KG, 83026 Rosenheim, Germany; [2]Stanford University, Department of Engineering, Stanford, CA 94305, United States; [3]Minnesota State University, Mankato, MN 56001, United States

PO3: 50

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

Mingfu Cai[1], Chenshuo Ye[2], Bin Yuan[3]
[1]South China Institute of Environmental Sciences, China, People's Republic of; [2]Guangdong Provincial Academy of Environmental Science; [3]Jinan University

PO3: 51

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]
[1]PSI Center for Energy and Environmental Sciences, 5232 Villigen PSI, Switzerland; [2]Federal Office of Meteorology and Climatology, MeteoSwiss, Payerne, Switzerland

PO3: 52

Chemical characterization of construction-related sources of respirable urban road dust and its potential biological effects

Beatrix Jancsek-Turóczi[1,2], János Osán[2,3], Zsolt Endre Horváth[3], Balázs Kakasi[1,2], András Hoffer[1,2], András Gelencsér[1,2]
[1]HUN-REN-PE Air Chemistry Research Group; [2]Air Chemistry Research Group, Research Institute of Biomolecular and Chemical Engineering, University of Pannonia; [3]HUN-REN Centre for Energy Research

PO3: 53

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]
[1]Helmholtz Centre for Environmental Research GmbH - UFZ, Germany; [2]Leibniz Institute for Tropospheric Research - TROPOS, Germany; [3]Leipzig University - Faculty of Medicine, Germany; [4]German Environment Agency - Section Microbiological Risks, Germany

PO3: 54

Hunting for the sources of rural air pollution: waste burning

Árpád Farkas[1], Veronika Groma[1], Sally Kheirandish[2], Bálint Alföldy[3], János Osán[1]
[1]HUN-REN Centre for Energy Research, Hungary; [2]Eötvös Loránd University, Hungary; [3]Aerosol d.o.o., Slovenia

PO3: 55

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
Univ Paris-Est Creteil, France

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Investigation of Optical Properties of Different Fuels Diesel Exhaust by an Atmospheric Simulation Chamber experiment

Silvia Giulia Danelli[1], Lorenzo Caponi[1], Marco Brunoldi[2,3], Matilde De Camillis[1], Dario Massabò[2,3], Federico Mazzei[2,3], Tommaso Isolabella[2,3], Paolo Prati[2,3], Matteo Santostefano[1], Alessandro Viani[4], Francesca Tarchino[5], Virginia Vernocchi[2,3], Paolo Brotto[1]
[1]PM_TEN Srl, Genoa, 16123, Italy; [2]INFN, Genoa Section, Genoa, 16146, Italy; [3]Department of Physics, University of Genoa, Genoa, 16146, Italy; [4]BEES Srl, Genoa, 16121, Italy; [5]SIGE Srl, Genoa, 16161, Italy

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ML analysis for absorption measurements correction schemes – A test study

Jesús Yus Díez[1], Jorge Pérez[2], Luka Drinovec[1,3], Lucas Alados-Arboledas[4], Gloria Titos[4], Tuukka Petäjä[5], Andrés Alastuey[6], Xavier Querol[6], Griša Močnik[1,3]
[1]University of Nova Gorica, Slovenia; [2]Nextail Labs SL, 28006 Madrid, Spain; [3]Haze instruments d.o.o; [4]Andalusian Institute for Earth System Research (IISTA-CEAMA), University of Granada, Granada, Spain; [5]Institute for Atmospheric and Earth System Research (INAR), Faculty of Science, University of Helsinki, Finland; [6]Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain

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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

Federico Mazzei[1,2], Vera Bernardoni[3], Giulia Calzolai[4], Fabio Giardi[4], Muhammad Irfan[1], Tommaso Isolabella[1,2], Sara Lucherini[3], Paolo Prati[1,2], Virginia Vernocchi[2], Dario Massabò[1,2]
[1]University of Genoa, Italy; [2]INFN, Division of Genoa, Italy; [3]Università degli Studi di Milano and INFN, Milan, Italy; [4]National Institute for Nuclear Physics, INFN-Florence, Sesto Fiorentino, Italy

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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
University of Huelva, Spain

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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
Vinca Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade

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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)

Lucas Covre Chiari[1], Jean-Eudes Petit[2], Joel F. de Brito[3], Pauline Fombelle[4], Olatunde Murana[3], Etienne Brugère[4], Agnès Borbon[4], Luciana Rizzo[5], Amauri Pereira de Oliveira[1], Maciel Pinero[1], Georgia Condato[1], Samara Carbone[6], Adalgiza Fornaro[1]
[1]Institute of Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo; [2]Laboratoire des Sciences du Climat et de l'Environnement, CEA, CNRS, Gif sur Yvette; [3]Centre for Energy and Environment, IMT Nord Europe, Institut Mines-Télécom, Université de Lille; [4]Université Clermont Auvergne, Laboratoire de Météorologie Physique (LAMP/CNRS); [5]Institute of Physics, University of São Paulo; [6]Institute of Agricultural Sciences, Federal University of Uberlândia

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

Salvatore Spinosa[1], Matteo Manzo[1], Antonella Boselli[2], Salvatore Consoli[3], Riccardo Damiano[1], Emilio Pecora[3], Simona Scollo[3]
[1]Department of Physics "Ettore Pancini" University of Naples "Federico II", I-80126 Napoli, Italy; [2]IMAA-CNR Istituto di Metodologie per l'Analisi Ambientale, I-85050, Tito Scalo-Potenza, Italy; [3]Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etneo, Piazza Roma 2, 95125 Catania, Italy

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Understanding pesticides monitoring with local agricultural uses and practices

Killian Guillaume[1,2], Olivier Cesbron[2], Nathalie Bonvallot[1], Olivier Le Bihan[3]
[1]Univ Rennes, Inserm, EHESP, Irset (Institut de recherche en santé, environnement et travail) - UMR_S 1085, F-35000 Rennes, France; [2]Air-Breizh, 3 E Rue de Paris, 35510 Cesson-Sévigné, France; [3]LB Environnement, 35000 Rennes, France

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

András Hoffer[1,2], Ádám Tóth[2], Beatrix Jancsek-Turóczi[1,2], András Gelencsér[1,2]
[1]1HUN-REN–PE Air Chemistry Research Group, University of Pannonia, Veszprém, 8200, Hungary; [2]University of Pannonia, Veszprém, 8200, Hungary

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

Olga Popovicheva[1], Marina Chichaeva[1], Roman Kovach[1], Matic Ivančič[2], Balint Alföldy[2], Nikolay Kasimov[1]
[1]Moscow State University, Russian Federation; [2]Aerosol d.o.o., Research & Development Department, Ljubljana, Slovenia

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PFAS monitoring in Flanders, Belgium

Jan Peters
VITO, Belgium

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

Shamjad Puthukkadan Moosakutty, M. Rami Alfarra
Qatar Environment and Energy Research Institute, Hamad Bin Khalifa University, Qatar

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

Adelaide Dinoi[1], Florin Unga[1], Daniela Cesari[1], Antonio Pennetta[1], Ermelinda Bloise[1], Giuseppe De Luca[1], Paola Semeraro[1], Annarosa Mangone[2], Maria Rachele Guascito[1,3], Daniele Contini[1]
[1]NationalCouncilofResearch(CNR), Italy; [2]Department of Chemistry, University of Bari, Italy; [3]Department DISTEBA, University of Salento, Lecce, Italy.

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

Marco Paglione[1], Karam Mansour[1], Maurizio Busetto[1], Fabrizio Ravegnani[1], Alessandro Bigi[2], Arunik Baruah[2,5], Francesco Marucci[3], Francesco Suriano[3], Stefano Zampolli[4], Matteo Rinaldi[1]
[1]Institute of Atmospheric Sciences and Climate, National Research Council of Italy, Bologna, 40129, Italy; [2]Dept. of Engineering 'Enzo Ferrari', University of Modena and Reggio Emilia, Modena, 41125 Italy; [3]Proambiente S.C.r.l., Bologna, 40129, Italy; [4]Institute for the Study of Nanostructured Materials, National Research Council of Italy, Bologna, 40129, Italy; [5]now at Dept. of Statistics, University of Bologna, Bologna, 40126, Italy

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BC concentrations and spectral absorptions at regional background stations in Greece

Anna Gkogiasvili[1], Marina V. Karava[2], Nestor Kontos[2], Martha Seraskeri[2], Iliana Tasiopoulou[2], Nikolaos Kalivitis[1], Georgios Kouvarakis[1], Rafaella-Eleni P. Sotiropoulou[3], Dimitris G. Kaskaoutis[2], Efthimios Tagaris[2], Nikolaos Mihalopoulos[4]
[1]Department of Chemistry, University of Crete; [2]Department of Chemical Engineering, University of Western Macedonia; [3]Department of Mechanical Engineering, University of Western Macedonia; [4]Institute for Environmental Research and Sustainable Development, National Observatory of Athens

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Brown carbon characterization and impacts of absorbing aerosol in Eastern Mediterranean

Despina Paraskevopoulou[1], Rima Baalbaki[2], Elie Bimenyimana[2], Michael Pikridas[2], Jean Sciare[2], Nikolaos Mihalopoulos[1,3]
[1]IESRD, National Observatory of Athens, I. Metaxa and Vas. Pavlou, 15236, P. Penteli, Athens, Greece; [2]Climate and Atmosphere Research Center (CARE-C), The Cyprus Institute, Nicosia, 2121, Cyprus; [3]ECPL, Department of Chemistry, University of Crete, P.O. Box 2208, 71003 Heraklion, Greece

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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
Queensland University of Technology, Brisbane, Australia

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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
IONICON Analytik GmbH, Austria

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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

Rubén Soler[1], Teresa Vera[1], Mila Ródenas[1], Ezra Wood[1,2], Esther Borrás[1], Beatriz Domínguez[1], Amalia Muñoz[1]
[1]Fundación CEAM. EUPHORE Laboratories, C/ Charles R. Darwin 14, 46980, Paterna, Spain; [2]Department of Chemistry, Drexel University, Philadelphia, PA, USA

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

Pedro Bernardino da Costa Rato[1,2], Jasper Kirkby[1,2], Eva Sommer[1,3], João Almeida[1,4], Paap Koemets[5], Sander Mirme[5], Boxing Yang[6], Lu Liu[6], Hannah Klebach[2]
[1]CERN, European Organisation for Nuclear Research, 1211 Geneva, Switzerland; [2]Institute for Atmospheric and Environmental Sciences, Goethe University Frankfurt, 60438 Frankfurt, Germany; [3]Faculty of Physics, University of Vienna, 1090 Vienna, Austria; [4]Faculty of Sciences of the University of Lisbon, 1749-016 Lisbon, Portugal; [5]Institute of Physics, Faculty of Science and Technology, University of Tartu, 50411 Tartu, Estonia; [6]Paul Scherrer Institute, 5232 Villigen PSI, Switzerland

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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

F. Martin Schnaiter[1,2], Emma Järvinen[1], Henri Servomaa[3], Eija Asmi[3], Antti-Pekka Hyvärinen[3], Rostislav Kouznetsov[3], Mikhail Sofiev[3], Aki Virkkula[3], Krista Luoma[3], Yutaka Kondo[4], Lauri Ahonen[5], Sujai Banerji[5], Tapio Elomaa[5], Tuukka Petäjä[5]
[1]University of Wuppertal, Germany; [2]schnaiTEC GmbH, Wuppertal, Germany; [3]Finnish Meteorological Institute, Helsinki, Finland; [4]University of Tokyo, Japan; [5]University of Helsinki, 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
N.C.S.R. 'Demokritos', Greece

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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]
[1]IMT NORD EUROPE, France; [2]UNILU FACULTE DE POLYTECHNIQUE, RD Congo

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Determination of the relative contributions of the disc and pad to the particles emitted by mechanical braking

Raafa Al Kaderi[1,2], Asma Grira[2,3], Joseph Frangieh[2], John Kasongo[1], Bruno Malet[1], Laurent Y. Alleman[1], Esperanza Perdrix[1], Alexandre Mege-Revil[2], Karine Pajot[4], Yannick Desplanques[2], Alexandre Tomas[1]
[1]Center for Energy an Environment, IMT Nord Europe, Institut Mines-Télécom, Université de Lille, Lille, France; [2]University of Lille, CNRS, Centrale Lille, UMR 9013, LaMcube, Lille, France; [3]Alstom Flertex/Flertex Sinter, Gennevilliers, France; [4]Alstom, Saint-Ouen-sur-Seine, France

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Cytotoxicity, intracellular oxidative stress, and acellular oxidative potential of PM2.5: a study in South Italy

Maria Elena Giordano[1], Maria Giulia Lionetto[1], Maria Rachele Guascito[1], Anna Rita De Bartolomeo[1], Serena Poti[3], Daniele Contini[2]
[1]Department of Environmental and Biological Sciences and Technologies (DISTEBA), University of Salento, Lecce, 73100, Italy.; [2]Institute of Atmospheric Sciences and Climate (ISAC), National Research Council of Italy, Lecce, 73100, Italy; [3]Department of Engineering for Innovation, University of Salento, Lecce, 73100, Italy

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

Martine Collaud Coen[1], Benjamin T. Brem[2], Robin Modini[2], Martin Gysel-Beer[2], Martin Steinbacher[3], Stephan Henne[3]
[1]MeteoSwiss, Switzerland; [2]PSI Center for Energy and Environmental Sciences, Switzerland; [3]Laboratory for Air Pollution/Environmental Technology, Empa, Switzerland

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

Iasonas Stavroulas[1], Asta Gregorič[1,2], Kristina Glojek[1], Marta Via[1], Jesus Yus Diez[1], Luka Drinovec[1], Petra Makorič[1], Manousos Manousakas[3], André Prévôt[3], Griša Močnik[1]
[1]Center for Atmospheric Research, University of Nova Gorica, SI-5000 Nova Gorica, Slovenia; [2]Aerosol d.o.o., SI-1000 Ljubljana, Slovenia; [3]Center for Energy and Environmental Sciences, Paul Scherrer Institute, 5232 Villigen, Switzerland

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Evaluating ALI Cell Exposure in Transient Driving Cycles in CNG vehicle

Eleni Papaioannou[1], Daniel Deloglou[1], Dimitrios Zarvalis[1], George Tsakonas[2], Rodopi Stamatiou[3], Antigoni Lazou[3], Zisis Samaras[2]
[1]CERTH; [2]LAT/AUTh; [3]School of Biology/AUTh

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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

Aurélia Alunni[1], Anthony Verdin[2], Nour Jaber[2], Yamina Allouche[1], Ali Hnaino[1], Emeline Barbier[3], Jessica Carpentier[3], Nicolas Karoski[1], Vincent Fuvel[1], Jason Bardou[1], Adrien Dermigny[1], Serge Collet[1], Jerome Beaumont[1], Laurent Meunier[1], Theo Claude[1], Robin Aujay-Plouzeau[1], Celine Ferret[1], Nathalie Bocquet[1], Rachel Gemayel[1], Sergio Harb[1], Maxime Floreani[1], Guillaume Barbier[1], Ahmad El-Masri[1], Khristy Pinto[1], Faustina Fuvel[1], Jean-Pierre Blanquet[1], Brice Temime-Roussel[4], Barbara D'Anna[4], Dominique Courcot[2], Frédéric Ledoux[2], Guillaume Garçon[3], Bénédicte Trouiller[1], Alexandre Albinet[1]
[1]INERIS, Parc Technologique Alata, Verneuil en Halatte, 60550, France; [2]Univ. Littoral Côte d'Opale (ULCO), France; [3]Univ. Lille, Lille Neurosciences & Cognition - UMRS 1172, France; [4]Univ. Aix Marseille, CNRS, LCE, France

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

Niccolò Losi[1], Martine Collaud Coen[2], Robin Lewis Modini[3], Benjamin Tobias Brem[3], Andrea Doldi[1], Sofia Cerri[4], Luca Ferrero[1], Martin Gysel-Beer[3]
[1]GEMMA and POLARIS Centre, Università degli Studi di Milano-Bicocca, Milano, 20126, Italy; [2]Federal Office of Meteorology and Climatology, MeteoSwiss, Payerne, 1530, Switzerland; [3]PSI Center for Energy and Environmental Sciences, Villigen, 5232, Switzerland; [4]Department of Environmental Sciences, Computer Science and Statistics (DAIS), University of Ca' Foscari,

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

Christina N. Vasilakopoulou[1], Angeliki Matrali[1,2], Andreas Aktypis[1,2], Christos Kaltsonoudis[1], Katerina Seitanidi[1], Kalliopi Florou[1], Georgia Argyropoulou[1,2], Aikaterini Bougiatioti[3], Spyros N. Pandis[1,2]
[1]Institute for Chemical Engineering Sciences, ICEHT/FORTH, Patras, Greece; [2]Department of Chemical Engineering, University of Patras, Patras, Greece; [3]Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece

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

Jordina Gili[1,2], Meghan E. Rebuli[4], Mar Viana[3,1]
[1]Institute of Environmental Assessment and Water Research – Spanish Research Council (IDAEA-CSIC), Barcelona, Spain; [2]PhD program of Analytical Chemistry and Environment, University of Barcelona, Barcelona, Spain; [3]Pollution Prevention Unit, Spanish Ministry for the Ecological Transition, Madrid, Spain; [4]Center for Environmental Medicine, Asthma, and Lung Biology, University of North Carolina at Chapel Hill, North Carolina, United States

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Fractional Soaring of Bacteria and Fungi Aerosols in a Chicken Farm

José Luis Pérez-Díaz[1,2], Cristina Del Álamo-Toraño[1], Sonia Peiró[2], Francisco Javier Pérez-Del-Álamo[2], Rafał Górny[3], Anna Lawniczek-Walczyk[3], Malgorzata Golofit-Szymczak[3]
[1]Escuela Politécnica Superior, Universidad de Alcalá, Spain; [2]Counterfog SL, Valdemoro, Spain; [3]Department of Chemical, Aerosol and Biological Hazards, Central Institute for Labour Protection, Poland

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

Kasper Friis Kjær, Emil Mark Iversen, Jonas Elm, Merete Bilde, Marianne Glasius
Aarhus University, Denmark

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

Fabio Giardi[1], Massimo Chiari[1], Giulia Calzolai[1], Cosimo Fratticioli[1,2], Franco Lucarelli[1,2], Silvia Nava[1,2], Mohamad Roumie[3], Manale Noun[3]
[1]National Institute for Nuclear Physics (INFN), Section of Florence, Sesto Fiorentino (FI), 50019, Italy; [2]Department of Physics and Astronomy, University of Florence, Sesto Fiorentino (FI), 50019, Italy; [3]Lebanese Atomic Energy Commission - National Council for Scientific Research (CNRS-L), Beirut 11-8281, Lebanon

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

Clément Mercier, Lara Leclerc, Valérie Forest, Jérémie Pourchez
Mines Saint-Etienne, Univ Lyon, Univ Jean Monnet, INSERM, U1059, SAINBIOSE, Centre CIS, F -42023 Saint- Etienne France

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

Charalampos Aristotelis Tzouvaras[1], Eleni Karnezi[2], Anna-Maria Paspala[1], Anna Manouka[1], Alexandros Naidos[1], Evangelia Kostenidou[1]
[1]Democritus University of Thrace, Greece; [2]Barcelona Supercomputing Center, Spain

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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

Robert Horn[1], Andrea Milinković[1], Ana Cvitešić Kušan[1], Branka Miljevic[2], Sanja Frka[1]
[1]Division for Marine and Environmental Research, Ruđer Bošković Institute, Zagreb, 10000, Croatia; [2]School of Earth and Atmospheric Sciences, Queensland University of Technology, Brisbane, 4001, Australia

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

Fei Gao[1], Sani Dimitroulopoulou[2], Tuan Vu[1], Sean Beevers[1]
[1]Imperial College London, United Kingdom; [2]UK Health Security Agency

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

Golnaz Roudsari[1], Maria Lbadaoui-Darvas[2,3], Yrjö Viisanen[1], Athanasios Nenes[2,4], Ari Laaksonen[1,5]
[1]Finnish Meteorological Institute, Finland; [2]Laboratory of Atmospheric Process and their Impacts, ENAC, Ecole Polytechnique Fédérale de Lausanne, Switzerland; [3]Office féderal de météorology et de climatologie MtoSuisse, Chemin de l'Aérologie 1, 1530 Payerne; [4]Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece; [5]Department of Applied Physics, University of Eastern Finland, Kuopio, Finland

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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

Katja Dzepina[1], Vaios Moschos[1,19], Anna Tobler[1,2], Francesco Canonaco[1,2], Manousos Manousakas[1,3], Michael Bauer[1], Peeyush Khare[1], Levi Folghera[1], Yufang Hao[1], Jasna Huremovic[4], Sabina Zero[4], Almir Bijedic[5], Enis Omercic[5], Enis Krecinic[5], Damir Smajic[5], Ismira Ahmovic[5], Sanela Salihagic[6], Adnan Masic[7], Gordana Pehnec[8], Ranka Godec[8], Ivana Jakovljevic[8], Silva Zuzul[8], Jasmina Rinkovec[8], Ivan Beslic[8], Anne Kasper-Giebl[9], Sanja Frka[10], Ana Cvitesic-Kusan[10], Jean-Luc Jaffrezo[11], Gaelle Uzu[11], Sonke Szidat[12], Dragana Djordjevic[13], Jelena Djuricic-Milankovic[14], Sofija Miljkovic[13], Kristina Glojek[15,21], Petra Makoric[15], Marta Via[15], Asta Gregoric[15,16], Martin Rigler[16], Matic Ivancic[16], Janja Vaupotic[17], Leah Williams[18], Philip Croteau[18], John Jayne[18], Sarath Guttikunda[20], Kaspar Dallenbach[1], Jay Slowik[1], Imad El Haddad[1], Grisa Mocnik[15], Andre Prevot[1]
[1]Paul Scherrer Institute, Switzerland; [2]Datalystica Ltd., Switzerland; [3]National Centre of Scientific Research “Demokritos”, Greece; [4]Faculty of Science, University of Sarajevo, Bosnia and Herzegovina; [5]Federal Hydrometeorological Institute of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina; [6]Institute for Public Health of the Sarajevo Canton, Bosnia and Herzegovina; [7]Mechanical Engineering Faculty, University of Sarajevo, Bosnia and Herzegovina; [8]Institute for Medical Research and Occupational Health, Zagreb, Croatia; [9]Technical University of Vienna, Austria; [10]Rudjer Boskovic Institute, Zagreb, Croatia; [11]Institute for Environmental Geosciences, Grenoble, France; [12]University of Bern, Switzerland; [13]University of Belgrade, Serbia; [14]Academy of Applied Studies Šabac, Serbia; [15]University of Nova Gorica, Slovenia; [16]Aerosol d.o.o., Ljubljana, Slovenia; [17]Jozef Stefan Institute, Ljubljana, Slovenia; [18]Aerodyne Research, Inc., Billerica, MA, United States of America; [19]University of North Carolina at Chapel Hill, NC, United States of America; [20]Urban Emissions, New Delhi, India; [21]Institute of Environmental Assessment and Water Research, Barcelona, Spain

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

Barlin Das
Dibrugarh University, India

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Ship emissions profiles from ambient measurements in Dublin Port

Kirsten Nicole Fossum[1], Chunshui Lin[1,2,3], Niall O'Sullivan[4], Lei Lu[1], Stig Hellebust[4], Darius Ceburnis[1], Anja Tremper[5], David Green[5], Srishti Jain[4], Stegville Byčenkienė[6], Colin O'Dowd[1], John Wenger[4], Jurgita Ovadnevaite[1]

[1]University of Galway, Ireland; [2]Chinese Academy of Sciences, China; [3]Hong Kong Polytechnic University, China; [4]University College Cork, Ireland; [5]Imperial College London, UK; [6]SRI Center for Physical Sciences and Technology, Lithuania

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

Nadine Bothen[1], Maryam Arghami[1], Anna Lena Leifke[1], Anna T. Backes[1], Michael G. Weller[2], Ulrich Pöschl[1], Janine Fröhlich-Nowoisky[1]

[1]Multiphase Chemistry Department, Max Planck Institute for Chemistry, Mainz, 55128, Germany; [2]Division 1.5 Protein Analysis, Federal Institute for Materials Research and Testing (BAM), Berlin, 12489, Germany

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

Burcu Uzun Ayvaz[1], Ulku Alver Sahin[1], Melike Servin Coşkun[1], Zehra Colak[1], S.Levent Kuzu[2], Coskun Ayvaz[1], Burcu Onat[1], Gulen Gullu[3], Fatma Ozturk[4], Roy M Harrison[5]

[1]Istanbul University-Cerrahpasa, Turkiye; [2]Istanbul Technical University; [3]Hacettepe University; [4]Bogazici University; [5]University of Birmingham

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

Carolina Vicente Reis[1], Sara Gonçalves[1], Carla Gamelas[1,2], Susana Marta Almeida[1], Sandra Cabo Verde[1], Nuno Canha[1,3]

[1]Centro de Ciências e Tecnologias Nucleares (C2TN), Instituto Superior Técnico, Universidade de Lisboa; [2]Instituto Politécnico de Setúbal, Escola Superior de Tecnologia de Setúbal; [3]HyLab - Green Hydrogen Collaborative Laboratory

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A Novel Breath-Taking Hood for COVID-19

Sheng-Hsiu Huang[1], Yu-Mei Kuo[2], Chih-Wei Lin[1], Chih-Chieh Chen[1]

[1]Institute of Environmental and Occupational Health Science, College of Public Health, National Taiwan University; [2]Department of Occupational Safety and Health, Chung Hwa University of Medical Technology

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

C. Blanco-Alegre[1], A.I. Calvo[1], C. Gonçalves[1], E. Vicente[2], A. Rodríguez-Fernández[3], L.B. Osa-Akara[1], P. Rodríguez-Rodríguez[1], E. Becerra Acosta[1], D. Baumgardner[4], R. Fraile[1]

[1]Department of Physics, University of León, Campus de Vegazana, 24071, León, Spain; [2]Centre for Environmental and Marine Studies (CESAM), Department of Environment and Planning, University of Aveiro, Aveiro 3810-193, Portugal; [3]Department of Biodiversity and Environmental Management, University of León, 24071 León, Spain; [4]Droplet Measurement Technologies, LLC, Longmont, CO, USA

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

Sergio Mendez[1], Joana Belo[2,3], Sérgio Bartolomeu[2,3], Bárbara Pinheiro[1], Sara Gonçalves[1], Miguel Meira Cruz[4,5], Susana Marta Almeida[1], Joana Lage[1,6]

[1]Centro de Ciências e Tecnologias Nucleares (C2TN), Instituto Superior Técnico, Universidade de Lisboa, Loures, 2695-066, Portugal; [2]ESTeSL-IPL - Escola Superior de Tecnologia da Saúde de Lisboa, Instituto Politécnico de Lisboa, Lisboa, Portugal; [3]Health & Technology Research Center (H&TRC), Escola Superior de Tecnologia da Saúde (ESTeSL), Instituto Politécnico de Lisboa (IPL), Portugal; [4]Centro Europeu do Sono, Clínica São João de Deus, Lisboa, Portugal; [5]Centro Cardiovascular da Universidade de Lisboa, Faculdade de Medicina da Universidade de Lisboa, Sleep Unit, Lisboa, Portugal; [6]Faculdade de Engenharia, Universidade Lusófona de Humanidades e Tecnologias de Lisboa, Lisboa, 1749-024, Portugal

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Assessment of children's exposure to airborne microorganisms indoors

Eleftheria Katsivela[1], Louiza Raisi[1,2], Evangelia Diapouli[3], Vassiliki Vassilatou[3], Stavroula Katsikari[3], Konstantinos Eleftheriadis[3], Mihalis Lazaridis[2]

[1]Hellenic Mediterranean University, Greece; [2]Technical University of Crete, Greece; [3]N.C.S.R. "Demokritos", Greece

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

Bettina Mária Eck-Varanka[1], Katalin Hubai[1], Nóra Kováts[1], Gábor Teke[2]

[1]University of Pannonia, Hungary; [2]ELGOSCAR 2000, Hungary

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

Yeonju Sim, Minhan Park, Kihong Park

Gwangju Institute of Science and Technology (GIST), Korea, Republic of (South Korea)

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

Daniel Algarrada, Pablo Pérez-Vizcaino, Ana M. Sánchez de la Campa, Daniel A. Sánchez-Rodas, Jesús De la Rosa
University of Huelva, Spain

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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
CNR-IMAA, Italy

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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

Maria P. Georgopoulou[1,2], Georgia Argyropoulou[1,2], Christina N. Vasilakopoulou[1], Kalliopi Florou[1], Athanasios Nenes[1,3], Spyros N. Pandis[1,2]
[1]Institute of Chemical Engineering Sciences, (FORTH/ICE-HT), 26504 Patras, Greece; [2]Department of Chemical Engineering, University of Patras, 26504 Patras, Greece; [3]Laboratory of Atmospheric Processes and their Impacts, EPFL, 1015 Lausanne, Switzerland

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

Anna Waleczek[1], Adam Krzysztofik[1], Morgane Perron[2], Matthieu Waeles[2], Aneta Oniszczuk-Jastrząbek[1], Ernest Czermański[1], Anita Lewandowska[1]
[1]University of Gdansk, Poland; [2]University of Brest, France

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

Gailė Pocevičiūtė[1], Violeta Kaunelienė[1], Edvardas Bagdonas[2], Darius Čiužas[1], Dainius Martuzevičius[1]
[1]Kaunas University of Technology, Lithuania; [2]Department of Regenerative Medicine, Centre for Innovative Medicine, Lithuania

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

Meng Wang[1], Qingyan Fu[2], Shun-cheng Lee[3]
[1]The Hong Kong Polytechnic University; [2]Shanghai Academy of Environmental Sciences; [3]The Hong Kong University of Science and Technology (Guangzhou)

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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
University of Bari "Aldo Moro", Italy

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Impact of residential biomass burning emissions on the wintertime particulate pollution in the Guanzhong Basin, China: a case study

Xia Li[1], Guohui Li[1,2]
[1]Institute of Earth Environment, Chinese Academy of Sciences, China, People's Republic of; [2]CAS Center for Excellence in Quaternary Science and Global Change, China

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Neural Network Interatomic Potentials for Atmospheric Chemistry

Lucas Bandeira[1], Hilda Sandström[1], Patrick Rinke[1,2]
[1]Department of Applied Physics, Aalto University, Espoo, 02150, Finland; [2]Department of Physics, TUM School of Natural Science, Technical University of Munich, Garching, Munich

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

Jarkko V. Niemi[1], Anu Kousa[1], Harri Portin[1], Anssi Julkunen[1], Topi Rönkkö[2], Hilkka Timonen[3], Hanna E. Manninen[1]
[1]Air Quality Unit, Helsinki Region Environmental Services Authority (HSY), Finland; [2]Aerosol Physics Laboratory, Tampere University, Finland; [3]Atmospheric Composition Research, Finnish Meteorological Institute, Finland

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PM10 Composition in an African Megacity: Weekly and Monthly Trends

Alan Victor Silva[1], Estela Vicente[1], Ana Sánchez de la Campa[2], Yago Alonso Cipoli[1], Leonardo Furst[1], Anabela Leitão[3], Manuel Feliciano[4], Célia Alves[1]

[1]Department of Environment and Planning, CESAM — Centre for Environmental and Marine Studies, University of Aveiro, Aveiro, 3810-193, Portugal; [2]Associate Unit CSIC-University of Huelva “Atmospheric Pollution”, Centre for Research in Sustainable Chemistry - CIQSO, ETSI, University of Huelva, 21071 Huelva, Spain; [3]LESRA – Separation, Chemical Reaction, and Environmental Engineering Laboratory, Agostinho Neto University, Av. Ho Chi Minh n◦ 201, Luanda, Angola; [4]CIMO — Mountain Research Centre, LA SusTEC — Associated Laboratory for Sustainability and Technology in Inland Regions, Polytechnic Institute of Bragança, Campus de Santa Apolónia, Bragança, 5300-253, Portugal

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PM2.5 in European Classrooms: A Comparative Study

Tiago Faria[1], Joana Lage[1,2], Miguel Felizardo[1], Ricardo Chacartegui[3,4], Israel Marques-Valderrama[3], José António Becerra[3,4], Marian Constantin[5], Anna Lehtonen[6], Niina Mykrä[6], José Alberto Díaz[7], Maria Nuria Sánchez[7], Antonis Stratis[8], Susana Marta Almeida[1]

[1]Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico, Universidade de Lisboa, Bobadela, Portugal; [2]Faculdade de Engenharia, Universidade Lusófona – Centro Universitário de Lisboa, 1749-024, Lisbon, Portugal; [3]Universidad de Sevilla, Dpto. Ingeniería Energética, Camino de los Descubrimientos s/n, Sevilla, 41092, Spain; [4]Universidad de Sevilla, Laboratory of Engineering for Energy and Environmental Sustainability, Seville, 41092, Spain; [5]MedaResearch, Pitesti, Romania; [6]Finnish Institute for Educational Research,University of Jyväskylä, Jyväskylä, Finland; [7]CIEMAT - Departamento de Energía Unidad Análisis Sistemas Energéticos; [8]QUE TECHNOLOGIES, Athens, Greece

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

Sea-Ho Oh[1,2], Kwanchul Kim[1], Seong-min Kim[1], Gahye Lee[1], Jeong-Min Park[1], Min kyung Sung[1], Sung-Jo Kim[1], Chaehyeong Park[2], Seoyeong Choe[2], Hajeong Jeon[2], Min-Suk Bae[2]

[1]Advanced Institute of Convergence Technology, Korea, Republic of (South Korea); [2]Mokpo National University, Korea, Republic of (South Korea)

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Supervised Machine Learning Approaches for Black Carbon Estimation in Rural Areas

Urška Koren Likar[1], Nejc Mozetič[2], Griša Močnik[1]

[1]University of Nova Gorica, Slovenia; [2]University of Ljubljana, Slovenia

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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]

[1]University of Gdansk, Poland; [2]University of Brest, France

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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]

[1]Regional Environmental Protection Agency - ARPA Valle d'Aosta, Saint-Christophe, 11020, Italy; [2]Université Grenoble Alpes (UGA), CNRS, IRD, Grenoble-INP, INRAE, 38402, Grenoble, France; [3]Atmo Auvergne-Rhône-Alpes, 69500 Bron, France

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

Anja Kočman[1], Barbara Novosel[1], Ana Kroflič[2]

[1]Faculty of Chemistry and Chemical Technology, University of Ljubljana; [2]National Institute of Chemistry, Slovenia

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

Francesca Calastrini[1,3], Andrea Orlandi[2], Gianni Messeri[1,3], Riccardo Benedetti[3], Roberto Vallorani[1,3], 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]

[1]Istituto di BioEconomia IBE-CNR, 50145 Florence, Italy; [2]ENEA, SSPT-CLIMAR, 40121 Bologna, Italy; [3]Consorzio LaMMa, 50019 Sesto Fiorentino, Florence, Italy; [4]Department of Chemistry, University of Florence, 50019 Sesto Fiorentino, Florence, Italy; [5]I.N.F.N., Florence, Via Sansone 1, 50019 Sesto F.no, Florence, Italy; [6]Department of Physics and Astronomy, University of Florence, 50019 Sesto F.no, Florence, Italy

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Aerosol light absorption alleviates particulate pollution during wintertime haze events

Jiarui Wu

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

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

Carolina Zellino[1], Andrea Spinazzè[1], Sandro Recchia[1], Carlo Dossi[2], Andrea Cattaneo[1], Domenica Maria Cavallo[1]

[1]1Department of Science and High Technology, University of Insubria, Como, 22100, Italy; [2]Department of Theoretical and Applied Sciences, University of Insubria, Varese, 21100, Italy

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

Beatrice Biffi, Cristina Colombi, Luca D'Angelo, Umberto Dal Santo, Eleonora Cuccia, Guido Lanzani
ARPA Lombardia, Italy

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Assessing chemical PM10 concentrations in school settings over two seasons

Isabella Charres Fandino Beames[1], Yago Cipoli[1], Estela D. Vicente[1], Leonardo Furst[1], Teresa Nunes[1], Ana M. Sánchez de la Campa[2], Manuel Feliciano[3], Célia Alves[1]
[1]Centre for Environmental and Marine Studies (CESAM), Department of Environment, University of Aveiro, Aveiro, 3810-193, Portugal; [2]Center for Research in Sustainable Chemistry-CIQSO, Associate Unit CSIC-University of Huelva "Atmospheric Pollution", Campus El Carmen s/n, 21071 Huelva, Spain; [3]CIMO, LA SusTEC, Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal

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

Małgorzata Gołofit-Szymczak, Rafał L. Górny, Marcin Cyprowski, Anna Ławniczek-Wałczyk, Agata Stobnicka-Kupiec
Central Institute for Labour Protection – National Research Institute, Poland

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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
University of Huelva, Spain

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

Maria Antonietta Reatini[1], Giorgio Cattani[1], Massimo Stafoggia[2], Federica Nobile[2], Michele Stortini[3], Roberta Amorati[3], Giorgio Verratti[4,5]
[1]Italian Institute for Environmental Protection and Research, Italy; [2]Department oEpidemiology of the Lazio Regional Health Service, ASL Roma 1, Rome, 00144, Italy; [3]ARPAE, Regional Environmental Agency of Emilia-Romagna, 40122 Bologna, Italy; [4]Department of Life Sciences. University of Modena and Reggio Emilia, 41125 Modena, Italy; [5]Department of Engineering 'Enzo Ferrari'. University of Modena and Reggio Emilia, 41125 Modena, Italy

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

Yinon Rudich, Ron Sarafian
Weizmann Institute, Israel

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

Seokhwan Lee, Sang-Hee Woo, Minki Kim, Hyoungjoon Jang, Wooyoung Kim
Korea Institute of Machinery and Materials, Korea, Republic of (South Korea)

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

Seoyoon Kwon[1,2], Gyumin Park[1,3], Chang-Ho Han[1]
[1]Korea Institute of Science and Technology Europe Forschungsgesellschaft mbH, Germany; [2]Department of Mechanical Systems Engineering, Sookmyung Women's Univeristy, Korea; [3]Department of Materials Science and Engineering, Korea University, Korea

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

Lucia Pastore, Jolanda Palmisani, Annalisa Marzocca, Marirosa Rosaria Nisi, Valentina Pizzillo, Miriana Cosma Mazzola, Gianluigi De Gennaro, Alessia Di Gilio
Università degli Studi di Bari, Italy

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

Zaheer Ahmad Nasar[1], Andrea Mazzeo[2], Christian Pfrang[3]
[1]Cranfield University, United Kingdom; [2]Lancaster University, United Kingdom; [3]University of Birmingham, United Kingdom

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Advancing analytical approaches to improve bioaerosols detection and characterisation

Zaheer Ahmad Nasar, Ata Khalid, Francis Hassard, Frederic Coulon
Cranfield University, United Kingdom

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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
ARPAT, Italy

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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
University of Huelva, Spain

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PM10 concentrations at different locations in the Dominican Republic

Andri Binet Álvarez[2], Eduardo Yubero Funes[1], Nuria Galindo Corral[1]
[1]Department of Applied Physics, Miguel Hernández University, Avda. Universidad S/N, 03203, Elche, Spain; [2]Department of Biology, Faculty of Science, Universidad Autónoma de Santo Domingo (UASD), Santo Domingo, 10105, Rep. Dom.

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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
Sri Sathya Sai Institute of Higher Learning, India

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Relationship between atmospheric electric field, precipitation and air ions

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

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Size-resolved condensation sink in different urban environments

Teemu Lepistö[1], Hilkka Timonen[2], Topi Rönkkö[1], Miikka Dal Maso[1]
[1]Tampere University, Finland; [2]Finnish Meteorological Institute, Finland

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

Yunfei Wu[1], Zhaoze Deng[1], Liang Ran[1], Shaowen Zhu[2], Nan Ma[2]
[1]Institute of Atmospheric Physics, Chinese Academy of Sciences, China; [2]College of Environment and Climate, Jinan University, China

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

Marija Jelena Lovrić Štefiček[1], Silvije Davila[1], Gordana Pehnec[1], Ivan Bešlić[1], Goran Gajski[2]
[1]Division of Environmental Hygiene, Institute for Medical Research and Occupational Health, Zagreb, 10000,; [2]Division of Toxicology, Institute for Medical Research and Occupational Health, Zagreb, 10000, Croatia

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

Vegard Sæter Grytting[1], Nur Duale[1], Tonje Skuland[1], Jarle Ballangby[1], Espen Mariussen[1], Johan Øvrevik[1,2]
[1]Norwegian Institute of Public Health, Norway; [2]University of Oslo, Norway

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

Aki Pajunoja[1], Joonas Vanhanen[1], Joonas Purén[1], Sean Schmitz[2], Martine Van Hoppel[3], Michael Pikridas[4], Erika von Schneidemesser[2]
[1]Airmodus Ltd., Helsinki, 00560, Finland; [2]Research Institute for Sustainability at GFZ, Potsdam, Germany; [3]Flemish Institute for Technological Research, Mol (VITO), Belgium; [4]Climate and Atmosphere Research Center (CARE-C), The Cyprus Institute

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Ornella Salimbene[1], Maria Teresa Baeza Romero[2], Ivano Salimbene[3], Gregor Čok[1]
[1]Chair of Spatial Planning, Faculty of Civil and Geodetic Engineering, University of Ljubljana, Jamova Cesta 2, 1000, Slovenia; [2]Dept of Physical Chemistry, School of Industrial and Aerospace Engineering, Inst. Of Nanoscience, Nanotechnology and Molecular Materials, Universidad de Castilla-La Mancha, 45071, Toledo; [3]Dept of Pneumology, ASL Salerno-Luigi Curto Hospital, Polla (SA), Italy

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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

Chun-Yu Chen, Perng-Jy Tsai
National Cheng Kung university, Taiwan

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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

Lucrecia Osa-Akara[1], Ana Isabel Calvo[1], Cátia Vanessa Maio Gonçalves[1], Carlos del Blanco Alegre[1], Ramón Castelo Alvarez[2], Maximiliano Fero Meñe[2], Rosaura Loeri[2], José Manuel Borilo Aranda[2], Salomón Abeso Nvó[2], Darrel Baumgardner[3], Roberto Fraile[1]
[1]Universidad de León, Spain; [2]National University of Equatorial Guinea; [3]Droplet Measurement Technologies, LLC, Longmont, CO, USA

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

Lucrecia Osa-Akara[1], Ana Isabel Calvo[1], C.N. Nve Mikue[2], Cátia Vanessa Maio Gonçalves[1], Carlos del Blanco Alegre[1], José Manuel Borilo Aranda[2], Ramón Castelo Alvarez[2], Maximiliano Fero Meñe[2], Darrel Baumgardner[3], Roberto Fraile[1]
[1]Universidad de León, Spain; [2]National University of Equatorial Guinea; [3]Droplet Measurement Technologies, LLC, Longmont, CO, USA

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

Karla A. Schwenke, Jennifer Bortlik, Lara Alberdi Zabala, Stefanie Klar, Dierk-Christoph Pöther
Unit Bioaerosols, Federal Institute for Occupational Safety and Health, Berlin, Germany

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

Jiangyue Zhao, Alexandra Schieweck, Erik Uhde
Department of Material Analysis and Indoor Chemistry, Fraunhofer WKI, Braunschweig, 38108, Germany

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

Totti Laitinen[1], Philson-Amanda Aden[2], Ville Bogdanoff[2], Mikko Sipilä[3], Kari Peräjärvi[2,4]
[1]National Defence University, Finland; [2]University of Jyväskylä, Finland; [3]University of Helsinki, Finland; [4]Radiation and Nuclear Safety Authority, Finland

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

Pavel Mikuška
Institute of Analytical Chemistry of the Czech Academy of Sciences, Czech Republic

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

Jiun-Horng Tsai
National Cheng Kung University, Taiwan

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

Marta Almeida[1], Tiago Faria[1], Joana Lage[1], Cássio Lucena[2], Luís Fernandes[2], Patrícia Lourenço[2], Alexandra Alegre[2]
[1]C2TN, Instituto Superior Técnico, Universidade de Lisboa, Portugal; [2]CITUA, Instituto Superior Técnico, Universidade de Lisboa, Portugal

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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]
[1]Center for Atmospheric Research, University of Nova Gorica, Ajdovščina, 5270, Slovenia; [2]Haze Instruments d.o.o., Ljubljana, 1000, Slovenia; [3]Aerovizija d.o.o., Vojnik, 3212, Slovenia; [4]IAASARS, National Observatory of Athens, Penteli, 15236, Greece; [5]Meteorological Institute, Ludwig Maximilian University of Munich, Germany; [6]Leibniz Institute for Tropospheric Research, Leipzig, Germany; [7]Ocean Science Centre Mindelo, Mindelo, CP 2110, Cape Verde; [8]GEOMAR Helmholtz Centre for Ocean Research, Kiel, 24148, Germany; [9]ESA/ESTEC, Noordwijk, 2201 AZ, Netherlands

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Effect of air purifiers on indoor air pollution in beauty salons

Patrycja Rogula-Kopiec[1], Wioletta Rogula-Kozłowska[2], Jan Bihałowicz[2]

[1]Institute of Environmental Engineering of the Polish Academy of Sciences, M. Skłodowskiej-Curie 34, 41-819 Zabrze, Poland; [2]Fire University, 01-629 Warsaw, Juliusza Słowackiego 52/54, Poland

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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]
[1]Region Skåne, Sweden; [2]Lund University, Sweden

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

Andrea Carlo D'Alicandro[2], Evelyne Géhin[2], Pierre Haen[3], Jeanne Malet[1], Corinne Prevost[1], Lyes Ait Ali Yahia[2]
[1]ASNR - France; [2]CERTES . UPEC, University Paris Est; [3]Hopital Laveran

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

Kinga Areta Wiśniewska[1], Małgorzata Werner[1], Sylwia Śliwińska-Wilczewska[2,3], Tomczyk Szymon[1], Anita Urszula Lewandowska[2], Maciej Kryza[1]
[1]University of Wroclaw; [2]University of Gdansk; [3]Mount Allison University

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

Jakob Kleno Nojgaard[1,2], Maria Hedmer[3,4], Karin Lovén[3,4], Johannes Rex[5], Joakim Pagels[5], Bo Strandberg[3,4], Lina Hagvall[3,4], Merve Polat[1,2]
[1]National Research Centre for the Working Environment, Denmark; [2]Department of Chemistry, University of Copenhagen, Copenhagen, DK-2100, Denmark; [3]Occupational and Environmental Medicine, Lund University, Lund, 22100, Sweden ; [4]Occupational and Environmental Medicine, Region Skåne, Lund, 22381, Sweden; [5]Ergonomics and Aerosol Technology, Lund University, Lund, SE-22100 Lund, Sweden

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

Matthias Karl[1], Saba Manzoor[2]
[1]Helmholtz-Zentrum Hereon, Germany; [2]Imperial College London, UK

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

Suzana Sopčić, Ranka Godec, Gordana Pehnec
Institute for Medical Research and Occupational Health, Croatia

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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]
[1]Université Paris Cité et Univ Paris Est Creteil, CNRS, LISA, F-75013 Paris, France; [2]Univ Paris Est Creteil et Université Paris Cité, CNRS, LISA, F-94010 Créteil, France; [3]Université Paris Est-Créteil, INSERM, IMRB, F-94010 Créteil, France; [4]Laboratoire Hypoxie&Poumon, INSERM, Université Sorbonne Paris-Nord, F-93000 Bobigny, France; [5]Service de Physiologie et d'Explorations Fonctionnelles, Hôpital Avicenne, APHP, F-93000 Bobigny, France

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

Li Liu[1], Yalin Liu[2], Ruichao Wang[2]
[1]Tsinghua University, China, People's Republic of; [2]School of Building Engineering, Xi'an University of Architecture and Technology, Xi'an, China

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

Daniel Göhler[1], Cedric R.D. Demtröder[2], Kathrin Oelschlägel[1], Lars Hillemann[1], Hülya Agarius[2], Peter Kirchmeyer[2], Dmitrij Dajchin[2], Urs Giger-Pabst[3]
[1]Topas GmbH, Dresden, DE-01237, Germany; [2]St. Martinus-Krankenhaus, Department of Surgery, Düsseldorf, DE-40219, Germany; [3]Fliedner Fachhochschule, University of Applied Science Düsseldorf, Düsseldorf, DE-40489, Germany

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

Ana Maria Rodriguez Cervantes[1], Alfonso Aranda[2], Bernabé Ballesteros[2], Nicolás Valiente[3], Maria Rodríguez[1], Maria Llanos Palop[1], Sussana Seseña[1]
[1]Faculty of Environmental Sciences and Biochemistry, Toledo, UCLM, Spain; [2]Faculty of Chemical Sciences and Technologies, Ciudad Real, UCLM, Spain; [3]Department of Science and Agroforestry Technology and Genetics, Albacete, UCLM, Spain

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Indoor air quality in school: Key influencing factors

Lina Davuliene, Sergej Šemčiuk, Vadimas Dudoitis, Steigvile Byčenkiene
Center of Physical Sciences and Technology, Lithuania

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

Christina Isaxon[1,2], Camilla Abrahamsson[1,2], Maria Hedmer[2,3], Monica Kåredal[2,3], Marie Bermeo Vargas[2], Pau Ternero[2], Tilen Koklic[4], Jenny Rissler[1,2], Johanna Samulin-Erdem[5]
[1]Ergonomics and Aerosol Technology, Lund University, Lund, Sweden; [2]NanoLund, Lund University, Lund, Sweden; [3]Occupational and Environmental Medicine, Lund University, Lund, Sweden; [4]Department of Condensed Matter Physics, Jozef Stefan Institute, Ljubljana, Slovenia; [5]Work Environment Toxicology, STAMI, Oslo, Norway

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

Guinam Wee[2], Juchan Hwang[2], Donghyun Lee[3], Hanjong Ko[4], Soojin Jang[2], Sungchul Seo[1]
[1]Seokyeong University, Korea, Republic of (South Korea); [2]Antibacterial Resistance Laboratory, Institut Pasteur Korea, Seongnam-si, 13588, Republic of Korea; [3]Institute of Environmentsl Health and Safety, Seoul, 04788, Republic of Korea; [4]Department of Agricultural Science Korea, National Open University, Seoul, 03087, Republic of Korea

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Occupational inhalation exposure to welding fumes

Mengjie Duan[1], Yiran Lu[2], Li Liu[2]
[1]University of Science and Technology Beijing, China, People's Republic of; [2]School of Architecture, Tsinghua University, Beijing, China, People's Republic of

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

Vânia Martins[1], Diogo Lopes[2], Pedro Cirne[3], Ana Isabel Miranda[2], Hélder Relvas[2]
[1]Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico, Universidade de Lisboa, 2695-066 Bobadela-LRS, Portugal; [2]Centre for Environment and Marine Studies (CESAM), University of Aveiro, 3810-193 Aveiro, Portugal; [3]Instituto de Telecomunicações, University of Aveiro, 3810-193 Aveiro, Portugal

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Assessing the contribution of road traffic to airborne microplastics: the iMPact project

Vânia Martins[1], Alexandra Nunes[1], Sónia Rocha[2], Mário Cerqueira[2], Teresa Rocha-Santos[2], S. Marta Almeida[1]
[1]Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico, Universidade de Lisboa, 2695-066 Bobadela-LRS, Portugal; [2]Centre for Environment and Marine Studies (CESAM), University of Aveiro, 3810-193 Aveiro, Portugal

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

Varun Kumar[1], Martin Ole Bjært Sørensen[1], Christel Christoffersen[1], Bjarne Jensen[1], Abdillahi Hussein Omar[1], Louise Bøge Frederickson[1], Vibeke Heitmann Gutzke[2], Karin Rosenkilde Laursen[2], Torben Sigsgaard[2], Kasper Vita Kristensen[3], Lise Lotte Sørensen[1], Andreas Massling[1]
[1]Department of Environmental Science, Aarhus University, 4000 Roskilde, Denmark; [2]Environment, Occupation and Health, Department of Public Health, Aarhus University, 8000, Aarhus, Denmark; [3]Department of Biological and Chemical Engineering - Process and Materials Engineering, Aarhus University, 8000 Aarhus, Denmark

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Particle emissions from dry herbs vaping

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

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Performance Analysis of Nebulizers for Intraperitoneal Aerosolized Drug Delivery

Mohammad Rahimi Gorji[1,2,3], Lotte Desmet[1,2], Stéphane Dorbolo[4], Charlotte Debbaut[2,3], Wouter Willaert[1,3], Wim Ceelen[1,3]
[1]Laboratory of Experimental Surgery (SURGX), Ghent University, Ghent, 9000, Belgium; [2]IBiTech-BioMMedA, Ghent University, Ghent, 9000, Belgium; [3]Cancer Research Institute Ghent (CRIG), Ghent, 9000, Belgium; [4]PtYX, Soft Matter Pole, CESAM, Université de Liège, Liège, 4000, Belgium

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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]
[1]Institute of Environmental Engineering, Polish Academy of Sciences; [2]Fite University, Poland; [3]Warsaw University of Technology; [4]Warsaw University of Life Sciences

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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
Università degli Studi di Bari, Italy

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Pseudomonas spp. in metalworking fluids – potential bioaerosol contamination of occupational environment in metal industry and phage-based biocontrol method

Agata Stobnicka-Kupiec, Małgorzata Gołofit-Szymczak
Central Institute for Labour Protection - National Research Institute, Poland

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

Haseeb Hakkim[1], Petra Hehet[2], Morphy Dumlao[3], Marco Schmidt[1], Aleksandrs Kalamašņikovs[1], Ellen Iva Rosewig[1], Guanzhong Wang[4], Heinrich Ruser[4], Michael Pütz[2], Martin Seipenbusch[5], Simone Vinati[5], Karsten Wegner[5], Thorsten Streibel[1], Robert Irsig[6], Andreas Walte[6], Sven Ehlert[6], Johannes Passig[1], Ralf Zimmermann[1]
[1]Joint Mass Spectrometry Centre, University of Rostock and Helmholtz Munich, Germany; [2]Federal Criminal Police Office, Forensic Science Institute & Bavarian State Criminal Police Office, Germany; [3]University of New South Wales, Canberra, Australia; [4]University of the Bundeswehr, Munich, Germany; [5]Parteq GmbH, Malsch, Germany; [6]Photonion GmbH, Schwerin, Germany

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Respiratory aerosol emission during various phonatory tasks

Anna Aurora Tuhkuri Matvejeff[1], Sampo Saari[2], Lotta Maria Oksanen[1], Paavo Heikkilä[3], Ville Silvonen[3], Jani Hakala[4], Topi Rönkkö[3], Enni Sanmark[1], Anne-Maria Laukkanen[5], Paavo Alku[6], Ahmed Geneid[1], Ville Vartiainen[7]
[1]Faculty of Medicine, University of Helsinki/ Helsinki University Hospital, Finland; [2]Tampere University of Applied Sciences, Finland; [3]Aerosol Physics Laboratory, Physics Unit, Faculty of Engineering and Natural Sciences, Tampere University, Finland; [4]VTT Technical Research Centre of Finland, Finland; [5]Speech and Voice Research Laboratory, Tampere University, Finland; [6]Department of Information and Communications Engineering, Aalto University, Finland; [7]Heart and Lung Center, Helsinki University Hospital, Finland

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

Yanfang Chen[1], Yuantao Wang[1], Damianos Pavlidis[2,3], Carolina Molina[3,4], Angeliki Matrali[2,3], Michael Bauer[1], Christian George[5], Athanasios Nenes[3,4], Imad El Haddad[1], Jay G. Slowik[1], Spyros N. Pandis[2,3], Andre S. H. Prevot[1], David M. Bell[1]
[1]PSI Center for Energy and Environmental Sciences, Paul Scherrer Institute (PSI), Villigen, 5232, Switzerland; [2]Department of Chemical Engineering, University of Patras, Patras, 26504, Greece; [3]Institute of Chemical Engineering Sciences (FORTH/ICE-HT), Patras, 26504, Greece; [4]Laboratory of Atmospheric Processes and their Impacts (LAPI), École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, 1015, Switzerland; [5]Universite Claude Bernard Lyon 1, CNRS, IRCELYON, UMR 5256, Villeurbanne F-69100, France

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Shape factor characterization of dry powder aerosol drugs

Szilvia Kugler[1], Tamás Kolonits[2], Péter Füri[1], Attila Nagy[3], Árpád Farkas[1]
[1]Environmental Physics Department, Institute for Energy Security and Environmental Safety, HUN-REN Centre for Energy Research, Hungary; [2]Thin Film Physics Department, Institute of Technical Physics and Materials Science, HUN-REN Centre for Energy Research, Hungary; [3]Department of Applied and Nonlinear Optics, Institute for Solid State Physics and Optics, HUN-REN Wigner Research Centre for Physics, Hungary

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

Ivana Jakovljević, Zdravka Sever Štrukil, Gordana Pehnec
Institute for Medical research and Occupational Health, Croatia

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Study of drug exposure during magistral preparation of medicine

József Baka[1], Enikő Papp[2], Anikó Angyal[2], Zsófia Kertész[2], Ildikó Bácskay[1]
[1]University of Debrecen; [2]HUN-REN Institute for Nuclear Research (ATOMKI), Hungary

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

Jose Francisco Nicolás[1], Nuria Galindo[1], Jennifer Matos[2]
[1]Miguel Hernández University (Spain).; [2]Universidad Autónoma de Santo Domingo (UASD). (Dominican Republic).

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

Tim Kramer[1], Wolfram Birmili[2], Stephan Weber[1]
[1]Technische Universität Braunschweig, Germany; [2]German Environment Agency, Germany

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

Nathalie Tomson, Igor Agranovski
Griffith University, Australia

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MODIS versus AERONET Aerosol Optical Properties in Central-East Europe

Lucia Deaconu, Alexandru Mereuță, Andrei Radovici, Horațiu Ioan Ștefănie, Camelia Botezan, Nicolae Ajtai
Babeș-Bolyai University, Romania

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Effectively constraining aerosol radiative forcing using remote sensing and in-situ observations

Lucia Deaconu[1], Duncan Watson-Parris[2], Philip Stier[3]
[1]Babeș-Bolyai University, Romania; [2]Scripps Institute, University of California, San Diego, USA; [3]AOPP, University of Oxford, Great Britain

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SangHee Woo, Wuyoung Kim, Seokhwan Lee
Korea Institute of Machinery and Materials, Korea, Republic of (South Korea)

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Biomonitoring of Airborne Particulate Matter Using Plane Tree Bark: Method Development and First Insights into Oxidative Potential measurement

Thomas Audoux[1], Nour Daaboul[1,2,3], Valérie Forest[2], Laurent Y. Alleman[1], Christine Franke[3]
[1]Center for Energy and Environment, IMT Nord Europe, Institut Mines-Télécom, Université de Lille, Lille, France.; [2]Mines Saint-Etienne, Univ Jean Monnet, INSERM, U1059 Sainbiose, Centre CIS, F-42023 Saint-Etienne, France; [3]Center of Geosciences and Geoengeneering, Mines Paris - PSL, Fontainebleau, France

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Oxidative potential of PM1 and PM10 at a Mediterranean urban site

Marina Alfosea-Simón, Noelia Gómez-Sánchez, Álvaro Clemente, Jose Francisco Nicolás, Javier Crespo, Eduardo Yubero, Nuria Galindo
Miguel Hernández University, Spain

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Sergej Sel, Henrik Hof, Frederik Weis, Volker Ziegler
Palas GmbH, Germany

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Tomasz Jankowski
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Alessandra Nocioni[1], Roberto Primerano[1], Pietro Caprioli[1], Aldo Pinto[1], Vincenzo Campanaro[1], Martino Giannuzzi[2], Antonio Fornaro[2]
[1]ARPA Puglia, Italy; [2]Lab Service Analytica srl

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The OASIS 2024 Campaign: The Role of VOCs in the Nucleation Particle Growth

Enrique Rojas[1], Francisco Javier Gomez Moreno[1], Elisabeth Alonso Blanco[1], Javier Fernández García[1], Pedro Salvador Martínez[1], Manuel Pujadas Cordero[1], Rosa María Pérez Pastor[1], Susana García Alonso[1], María Fernández Amado[2], María Piñeiro Iglesias[2], Purificación López Mahía[2]
[1]Ciemat, Spain; [2]Universidad de A Coruña

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Electrospraying polytetrafluoroethylene (PTFE) nanoparticle suspensions to form hydrophobic coatings

Deepak Parajuli[1], Eszter Bodnár[1], Joan Rosell-Llompart[1,2]
[1]University Rovira i Virgili, Spain; [2]Catalan Institution for Research and Advanced Studies, Spain

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Chemical-physical characterization of atmospheric particulate matter collected in the Lecce area (South Italy) by ED-XRF and ATR-FTIR spectroscopy

Paola Semeraro[1], Livia Giotta[2], Ylenia De Luca[2], Adelaide Dinoi[1], Giuseppe Deluca[1], Ermelinda Bloise[1], Daniele Contini[1]
[1]Institute of Atmospheric Sciences and Climate (ISAC), National Research Council of Italy, Lecce, 73100, Italy; [2]Department of Environmental and Biological Sciences and Technologies (DISTEBA), University of Salento, Lecce, 73100, Italy

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Techniques and measurement methods comparison for determination of the water-soluble fraction of atmospheric particulate matter

Ermelinda Bloise[1], Antonio Pennetta[1], Eva Merico[1], Daniela Cesari[1], Florin Unga[1], Serena Potì[2], Adelaide Dinoi[1], Paola Semeraro[1], Daniele Contini[1]

[1]CNR-ISAC Lecce, Italy; [2]Department DISTEBA - University of Salento, Lecce, Italy

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On the use of low-cost PM sensors for controlling ventilation system of production facilities on demand

Christof Asbach[1], Ana Maria Todea[1], Nikolas Rudnik[1], Tjark Sonnemann[2], Jana Diekmann[2], Norbert Kaufmann[3], Jan Schlichter[4]

[1]Institut für Umwelt & Energie, Technik & Analytik e. V. (IUTA), Germany; [2]Invent GmbH, Germany; [3]B+T Oberflächentechnik GmbH, Germany; [4]Technische Universität Braunschweig, Germany

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Suspect and untargeted characterization of total suspended particles collected in Porto Marghera, an industrial site in the Northeast of Italy

Roberta Zangrando[1], Elisa Scalabrin[1], Warren Raymond Lee Cairns[1], Elena Gregoris[1], Marco Roman[2], Andrea Gambaro[2]

[1]Institute of Polar Sciences, National Research Council of Italy, Italy; [2]Department of Environmental Sciences, Ca' Foscari University of Venice, Italy

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Evaluation of the impact of climate change on air quality in Alpine valleys

Maria Chiara Bove, Andrea Bisignano, Andrea Giordano, Massimiliano Pescetto, Chiara Righi, Francesca Giannoni

Arpa Liguria, Italy

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Intercomparison of online and offline XRF spectrometers for determining the elemental composition of PM10 at an urban site in Milan

Laura Cadeo[1], Beatrice Biffi[2], Benjamin Chazeau[3], Cristina Colombi[2], Rosario Cosenza[2], Eleonora Cuccia[2], Manousos-Ioannis Manousakas[4], Kaspar R. Daellenbach[4], André S.H. Prévôt[4], Roberta Vecchi[1]

[1]Università degli Studi di Milano, Italy; [2]ARPA Lombardia, Milan, Italy; [3]Aix Marseille Université, LCE, Marseille, France & Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Villigen PSI, Switzerland; [4]Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Villigen PSI, Switzerland

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Impacts of summertime photochemical aging on the physicochemical properties of aerosols in a Paris suburban forest region

Chenjie Yu[1], Paola Formenti[1], Joel F. de Brito[2], Astrid Bauville[3], Antonin Bergé[3], Hichem Bouzidi[1], Mathieu Cazaunau[1], Manuela Cirtog[3], Claudia Di Biagio[1], Ludovico Di Antonio[3], Cécile Gaimoz[3], Franck Maisonneuve[3], Pascal Zapf[1], Tobias Seubert[4], Simone T. Andersen[4], Patrick Dewald[4], Gunther N. T. E. Türk[4], John N. Crowley[4], Alexandre Kukui[5], Chaoyang Xue[5,6], Cyrielle Denjean[7], Olivier Garrouste[7], Jean-Claude Etienne[7], Huihui Wu[8,3], James D. Allan[8,9], Dantong Liu[10], Yangzhou Wu[11], Christopher Cantrell[3], Vincent Michoud[1]

[1]Université Paris Cité and Univ Paris Est Créteil, CNRS, LISA, F-75013 Paris, France; [2]IMT Nord Europe, Institut Mines-Télécom, Université de Lille, Centre for Energy and Environment, F-59000, Lille, France; [3]Univ Paris Est Créteil and Université Paris Cité, CNRS, LISA, F-94010 Créteil, France; [4]Atmospheric Chemistry Department, Max-Planck-Institute for Chemistry, 55128-Mainz, Germany; [5]Laboratoire de Physique et Chimie de l'Environnement et de l'Espace (LPC2E), CNRS−Université Orléans−CNES, Orléans Cedex 245071, France; [6]Multiphase Chemistry Department, Max-Planck-Institute for Chemistry, 55128-Mainz, Germany; [7]CNRM, Universite de Toulouse, Meteo-France, CNRS, Toulouse, France; [8]Department of Earth and Environmental Sciences, University of Manchester, Manchester M13 9PL, United Kingdom; [9]National Centre for Atmospheric Sciences, University of Manchester, Manchester M13 9PL, United Kingdom; [10]Department of Atmospheric Sciences, School of Earth Sciences, Zhejiang University, Zhejiang 310027, China; [11]Guangxi Key Laboratory of Theory and Technology for Environmental Pollution Control, Collaborative Innovation Center for Water Pollution Control and Water Safety in Karst Area, Guilin University of Technology, Guilin, China

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A novel laboratory experimental platform to explore jet engine combustion and lubricant oil aerosols interactions

Antoine Berthier, Ekram Benkaddour El Guassmi, Louise Ganeau, Alaric Vandestoc, Ismael Ortega

ONERA, France

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Petra Ruzickova, Petra Pribylova, Jana Klanova

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Petra Přibylová, Petra Ruzickova, Jana Klanova

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Attila Nagy, Aladár Czitrovszky

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Marica De Lucia[1], Mariella Aquilino[1], Silvana Fuina[1], Cristina Tarantino[1], Matteo Picchiani[2], Giovanni Rum[2], Simona Zoffoli[2], Roberto Bellotti[3,4], Alfonso Monaco[3,4], Roberto Cilli[3], Alessandro Fania[3,4], Ester Pantaleo[3,4], Vincenzo Campanaro[5], Francesca Intini[5], Angela Morabito[5], Alessandra Nocioni[5], Maria Adamo[1]

[1]Institute of Atmospheric Pollution, National Research Council (CNR-IIA), Italy; [2]Italian Space Agency; [3]Interateneo Physics Department M. Merlin, University of Bari, Italy; [4]National Institute for Nuclear Physics, Bari, Italy; [5]Regional Environmental Protection Agency, Bari, Italy

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Machine Learning-Based Forecasting and Impact Assessment of Black Carbon over Indo-Gangetic Basin City

Vaishnav Bartaria[1], Auroop Ratan Ganguly[2], Ashok Jangid[1], Ranjit Kumar[1]

[1]Dayalbagh Educational Institute (Deemed to be University) Dayalbagh Agra 282005 (India), India; [2]Civil and Environmental Engineering, School of Engineering, Northeastern University, Boston, USA

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A charger-less, pump-less electrostatic precipitator utilizing triboelectric charging for collecting brake-wear-particles

Chaeyeon Jo[1,2], Dongho Shin[1], Daewon Kim[1], Gunhee Lee[1], Jongsup Hong[2], Bangwoo Han[1]

[1]Korea Institute of Machinery and Materials, Republic of (South Korea); [2]Yonsei University, Republic of (South Korea)

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Bioaerosol Sensing for Environmental Health: A Proof-of-Concept Study

Ata Khalid, Zaheer Nasar, Frederic Coulon
Cranfield University, United Kingdom

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Chemistry in nanometer-sized aerosol particles: Investigating the dependency of peptide formation on particle size using online-APCI-MS

Wiebke Rautenberg, Thorsten Hoffmann
Johannes Gutenberg University Mainz, Germany

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Comparison of Aerosol Absorption Ångström Exponent Between Photoacoustic and Filter-Based Methods in a Rural Environment

Emma Järvinen[1], Franz Martin Schnaiter[1,2], Chao Liu[3], Aki Virkkula[4], John Backman[4]

[1]Institute for Atmospheric and Environmental Research, University of Wuppertal, Wuppertal, 42119, Germany; [2]schnaiTEC GmbH, Wuppertal, 42287, Wuppertal; [3]Collaborative Innovation Center on Forecast and Evaluation of Meteorological Disasters, Nanjing University of Information Science & Technology, Nanjing, 210044, China; [4]Finnish Meteorological Institute, Helsinki, 00560, Helsinki

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Contribution of BTEX on secondary organic aerosol formation potential at a Mediterranean site (Heraklion, Crete, Greece)

Elza Panagiota Raptaki[1,2], Faidra Aikaterini Kozonaki[1,2], Giorgos Kouvarakis[2], Nikos Kalivitis[2], Maria Tsagkaraki[2], Eleni Liakakou[1], Maria Kanakidou[2], Nikos Mihalopoulos[1,2]

[1]Institute for Environmental Research and Sustainable Development, National Observatory of Athens, P. Penteli, Athens, 15236, Greece; [2]Environmental Chemical Processes Laboratory, Department of Chemistry, University of Crete, Heraklion, 71003, Greece

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Delayed respiratory response to wildfire smoke

Jim Blando[1], Michael Allen[2], Hadiza Galadima[1], Muge Akpinar[3], Mariana Szklo-Coxe[1]

[1]Old Dominion University, United States of America; [2]Towson University, USA; [3]University of Nevada - Reno

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Electrode material transport and its role in the temporal variation of the composition of Cu/Ag NPs generated by high-frequency spark discharge

Lajos Péter Villy[1], Attila Kohut[1], Viktória Horváth[1], Dániel Megyeri[1], Ádam Antal Bélteki[2], Almachiusi Rwegasira Rweyemamu[2], Gábor Galbács[2], Zsolt Geretovszky[1]

[1]1Department of Optics and Quantum Electronics, University of Szeged, Szeged, 6720, Hungary; [2]Department of Molecular and Analytical Chemistry, University of Szeged, Szeged, 6720, Hungary

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Evaluation of Particle Collection and Cleaning Performance of an Electrostatic Precipitator Equipped with EDS System

Gunhee Lee[1,2], Yunhui Joe[1,2], Dongho Shin[1], Bangwoo Han[1,2]

[1]Department of Urban Environment Research, Korea Institute of Machinery and Materials, Republic of Korea; [2]Mechanical Engineering, University of Science and Technology (UST), Republic of Korea

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Catia Balducci[1], Serena Santoro[1], Mariantonia Bencardino[1], Francesco D'Amore[1], Marina Cerasa[1], Gianni Formenton[2], Silvia Mosca[1], Cristina Leonardi[1]

[1]Consiglio Nazionale delle Ricerche, Italy; [2]ARPA Veneto, Italy

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Indoor air quality and health effects in elementary schools: preliminary results of MISSION project

Pierina Ielpo[1], Ivano Ammoscato[2], Alessandro Palestra[3], Elisa Galbiati[4], Claudia Lionetti[4], Giovanna Bregante[5], Luigina Patricola[5], Giuseppe De Palma[6], Roberta Ghitti[6], Giulia Tocchini[6], Vincenzo Paolo Granato[6], Paolo Danza[7], Piero Lovreglio[7], Luigi Vimercati[7], Sonia Vitaliti[3]

[1]CNR ISAC, Lecce, Italy; [2]CNR ISAC, Lamezia Terme, Italy; [3]Laboratorio di Prevenzione-ATS Milano, Italy; [4]Medicina del lavoro, Ospedale di Desio, Italy; [5]ATS Insubria, Varese, Italy; [6]ASST Spedali Civili di Brescia, Italy; [7]Medicina del lavoro - Università di Bari, Italy

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Modelling oxidative potential (OP) of atmospheric particle: A 2-year study over France

Gilles Foret[1], Matthieu Vida[1], Guillaume Siour[1], Jean-Luc Jaffrezo[2], Olivier Favez[3], Arineh Cholakian[4], Julie Cozic[5], Harry Dupont[5], Grégory Gilles[6], Sonia Oppo[6], Florie Francony[7], Cyril Pallares[7], Sébastien Conil[8], Gaelle Uzu[2], Matthias Beekmann[1]

[1]LISA (UPEC-CNRS-UPC), France; [2]IGE, France; [3]INERIS, France; [4]LMD, France; [5]Atmo AURA, France; [6]Atmo Sud, France; [7]Atmo Nouvelle-Aquitaine, France; [8]ANDRA, France

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Highly perforated ZnO/PLA nanofibers fabricated via humidity-assisted electrospinning for antimicrobial filtration of bioaerosols

Younghun Kim[1,2], Jeong Rae Kim[2], Gunhee Lee[1], Bangwoo Han[1], Jungho Hwang[2], Dae Hoon Park[1]

[1]Korea Institute Machinery & Materials, Korea, Republic of (South Korea); [2]Yonsei University, Korea, Republic of (South Korea)

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Improving Ultrafine Particle Measurements with an Innovative UFSMPS Dual-CPC System

Tommy Chan, Pasi Aalto, Hannu Koskenvaara, Pekka Rantala, Jarkko Mäntylä, Lauri Ahonen, Janne Lampilahti, Katrianne Lehtipalo, Markku Kulmala, Tuukka Petäjä

University of Helsinki, Finland

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Implementing bioaerosols in the EC-Earth3-AerChem model

Stelios Myriokefalitakis[1], Lars Nieradzik[2], Marios Chatziparaschos[3,4], Evangelos Stergiou[3], Maria Kanakidou[3]

[1]Institute for Environmental Research and Sustainable Development, National Observatory of Athens (NOA), Greece; [2]Department of Physical Geography and Ecosystem Science, Lund University, Sweden; [3]Environmental Chemical Processes Laboratory (ECPL), University of Crete, Greece; [4]Barcelona Supercomputing Center (BSC), Spain

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Long-term monitoring of New Particle Formation influencers in Ny-Ålesund leads to understanding novel nucleation pathways in the Arctic

Lauriane L. J. Quéléver[1], Aarni Vaitttinen[1], Zoé Brasseur[1], Roseline Thakur[1], Matthew Boyer[1], Cecilia Righi[1], Mauro Mazzola[2], Nina Sarnela[1], Mikko Sipilä[1]

[1]Institute for Atmospheric and Earth System Research , INAR, Helsinki, Finland; [2]Institute of Polar Sciences (CNR-ISP), National Research Council, CNR, Bologna, Italy

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Study of Cs-Mo reactivity through RCS transport in PWR accident conditions

Youcef Charif Mechiche, Anne-Cécile Grégoire, Sidi Souvi, Jean Denis, Laurent Cantrel

ASNR, France

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The LowC-project: Safe and sustainable Low-Carbon fuels for heavy-duty, aviation, and maritime sectors.

Johan Øvrevik[1], Barbara Rothen-Rutishauser[2], Olli Sippula[3], Sebastiano di Bucchianico[4], Zbigniew Klimont[5], Hilde Fagerli[6], Thorsten Streibel[4], Uwe Etzien[4], Georg Töpfer[7], Markus Kalberer[8]

[1]Norwegian Institute of Public health, Norway; [2]University of Fribourg, Switzerland; [3]University of Eastern Finland, Finland; [4]University of Rostock, Germany; [5]International Institute for Applied Systems Analysis (IIASA), Austria; [6]Norwegian Meteorological Institute, Norway; [7]Deutz AG, Germany; [8]University of Basel, Switzerland

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Urban Air Quality Hotspot Detection Through High-Resolution Mobile Measurements: Budapest Case Study

Ágoston Vilmos Tordai, Róbert Mészáros

Department of Meteorology, Institute of Geography and Earth Sciences, Eötvös Loránd University, Budapest, Hungary

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Study on Cleaning Performance and Dust Emissions of Bag Filters Depending on Surface Treatment

Dong-Soo Kim[1], Zainul Alim Ali Murtadlo[1], Hee-joo Cho[1], Hyun-Seol Park[1,2]

[1]Korea Institute of Energy Research, Korea, Republic of (South Korea); [2]University of Science and Technology, Daejeon, Republic of Korea

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Introduction and First Test Results of a Portable Dual Channel Water CPC

Torben Rüther, Kykal C., Bischof O.F., Tritscher T.
TSI GmbH, Germany

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The impact of wildfire emissions on oxidative potential of aerosol particles in Canada

Pourya Shahpoury[1,2], Thomas Berkemeier[2], Mahmoud Yassine[3], Carolina Molina[4], Valbona Celo[3], Ewa Dabek-Zlotorzynska[3], Tom Harner[5], Athanasios Nenes[4,6], J. Mark Parnis[7]
[1]Environmental and Life Sciences, Trent University, Peterborough, Canada; [2]Multiphase Chemistry Department, Max Planck Institute for Chemistry, Mainz, Germany; [3]Analysis and Air Quality Section, Environment and Climate Change Canada, Ottawa, Canada; [4]Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece; [5]Air Quality Processes Research Section, Environment and Climate Change Canada, Toronto, Canada; [6]Laboratory of Atmospheric Processes and their Impacts, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland; [7]Department of Chemistry, Trent University, Peterborough, Canada

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Emission of airborne particles from 3D printing

Luigi Fappiano[1], Elisa Caracci[1], Andrea Ceccacci[1], Gianluca Iannitti[1], Luca Stabile[1], Giorgio Buonanno[1,2]
[1]Department of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, Cassino, FR, Italy; [2]International Laboratory for Air Quality and Health, Queensland University of Technology, Brisbane, Qld, Australia