

LAC Publications 2002

Journal Articles 2002

Anderson, W. T., S. M. Bernasconi, J. A. McKenzie, M. Saurer, and F. Schweingruber, 2002:

Model evaluation for reconstructing the oxygen isotopic composition in precipitation from tree ring cellulose over the last century.

Chem. Geol., **182**, 121-137.

Baltensperger, U. et al., 2002:

Urban and rural aerosol characterization of summer smog events during the PIPAPO field campaign in Milan, Italy.

J. Geophys. Res., **107**.

Bojinski, S., D. Schlöpfer, M. Schaepman, and J. Keller, 2002:

Aerosol mapping over rugged heterogeneous terrain using imaging spectrometer data.

SPIE Imaging Spectrometry VIII, **4816**, 108-119.

Bukowiecki, N., J. Dommen, A. S. H. Prévôt, R. Richter, E. Weingartner, and U. Baltensperger, 2002:

A mobile pollutant measurement laboratory - measuring gas and aerosol ambient concentrations with high spatial and temporal resolution.

Atmos. Environ., **36**, 5569-5579.

Bukowiecki, N., D. B. Kittelson, W. F. Watts, H. Burtscher, E. Weingartner, and U. Baltensperger, 2002:

Real-time characterization of ultrafine and accumulation mode particles in ambient combustion aerosols.

J. Aerosol Sci., **33**, 1139-1154.

Chevillard, A. et al., 2002:

Transport of ²²²Rn using the regional model REMO: A detailed comparison with measurements over Europe.

Tellus, **54B**, 850-871.

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J. Geophys. Res., **107**.

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Dendrochronologia, **20**, 159-174.

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AEROCHEM II - Modelling the impact of aircraft emissions on ozone and other chemical compounds in the atmosphere.

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Significance of semivolatile diesel exhaust organics for secondary HONO formation.

Environ. Sci. Technol., **36**, 677-682.

Gysel, M., E. Weingartner, and U. Baltensperger, 2002:

Hygroscopicity of aerosol particles at low temperatures. 2. Theoretical and experimental hygroscopic properties of laboratory generated aerosols.

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Hagedorn, F., P. Balsler, and R. T. W. Siegwolf, 2002:

Elevated atmospheric CO₂ and increased N deposition effects on dissolved organic carbon - clues from d¹³C signature.

Soil Biology & Biochemistry, **34**, 355-366.

Henning, S., E. Weingartner, M. Schwikowski, H. W. Gäggeler, R. Gehrig, K.-P. Hinz, A. Trimborn, B. Spengler, and U. Baltensperger, 2002:

Seasonal variation of water soluble ions of the aerosol at the high-alpine site Jungfrauoch (3580 m asl).

Journal of Geophysical Research, **107**, doi: 10.1029/2002JD002439.

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Size dependent aerosol activation at the high alpine site Jungfraujoch (3580 m asl).

Tellus Series B Chemical and Physical Meteorology, **54B**, 82-95.

Keller, J., N. Ritter, S. Andreani-Aksoyoglu, M. Tinguely, and A. S. H. Prévôt, 2002:

Unexpected vertical profiles obtained by the SAIMM / UAM-V air quality model over the complex terrain of Switzerland.

Environmental Modeling and Software, **17**, 747-762.

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What can we learn from oxygen and hydrogen isotope compositions of tree ring cellulose in higher plants.

Acta Phytocologia Sinica, **26**, 381-384.

Nyeki, S., K. Eleftheriadis, U. Baltensperger, I. Colbeck, M. Fiebig, A. Fix, C. Kiemle, M. Lazaridis, and A. Petzold, 2002:

Airborne lidar and in-situ aerosol observations of an elevated layer, leeward of the European Alps and Apennines.

Geophys. Res. Lett., **29**, 1852-1855.

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Sensitivity of photooxidant production in the Milan Basin: An overview of results from a EUROTRAC-2 Limitation of Oxidant Production field experiment.

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Jäggi, M., M. Saurer, J. Fuhrer, and R. T. W. Siegwolf, 2002:

The relationship between the stable carbon isotope composition of needle bulk material, starch, and tree rings in *Picea abies*.

Oecologia, **131**, 325-332.

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Spatial and temporal oxygen isotope trends at the northern tree-line in Eurasia.

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Climatology of ozone transport from the free troposphere into the boundary layer south of the Alps during North Foehn.

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Measurement tools for atmospheric systems.

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Tropospheric Aerosols and Clouds.

Towards Cleaner Air for Europe - Science, Tools and Applications. Part 1. Results from the EUROTRAC-2 Synthesis and Integration Project, P. M. Midgley and M. Reuther (Eds.). Margraf Publisher, 157-194.

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Andreani-Aksoyoglu, S., J. Keller, A. S. H. Prévôt, and P. Builtjes, 2002:

Effects of some model parameters on the indicator values for ozone production sensitivity.

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Fluxes of a mountain grassland: a contribution to the Carbomont project.

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Advances in aerosol measurement techniques Transport and Chemical Transformation in the Troposphere.

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Change of physical and chemical properties of soot particles by aging processes in the atmosphere.

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Vertical uplifting and regional modelling.

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Bukowiecki, N., A. S. H. Prévôt, J. Dommen, R. Richter, E. Weingartner, and U. Baltensperger, 2002:

Spatial distributions of aerosol particles determined with PSI's new mobile laboratory.

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Bukowiecki, N., U. Baltensperger, J. Dommen, R. Richter, E. Weingartner, and A. S. H. Prévôt, 2002:

Spatial and temporal variations of aerosol and gas phase ambient concentrations - on-road measurements with a mobile laboratory.

11th International Symposium, Transport and Air Pollution, Graz, Austria.

Corrigan, C., E. Weingartner, M. Gysel, S. Henning, and U. Baltensperger, 2002:

The hygroscopic growth of aerosol particles at the Jungfrauoch.

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Comparison of photooxidant formation rates between measurements and models.

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Fast on-line Measurements of Hydrocarbons and Oxygenated Organics in Ambient Air with a Proton-transfer-reaction Mass Spectrometer.

50th ASMS Conference on Mass Spectrometry and Allied Topics, Orlando, Florida, Am. Soc. Mass Spectr., Santa Fe, USA.

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Unstationary and inhomogeneity aspects of the MAP IOP 12 south foehn event in the Rhine Valley.

10th Conference on Mountain Meteorology and MAP Meeting 2002, Park City, Utah, USA, American Meteorological Society, 315-318.

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Online quasi-continuous measurement of organic acids in the atmosphere.

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Furger, M., W. Eugster, N. Rogiers, E. Bantelmann, and R. Siegwolf, 2002:

Carbon sinks and carbon management in European mountains.

AGU Fall Meeting 2002, San Francisco, American Geophysical Union, Abstract U22A-09.

Furger, M., A. S. H. Prévôt, and R. O. Weber, 2002:

The effect of north foehn on boundary layer ozone concentrations in the Po Basin.

15th Symposium on Boundary Layers and Turbulence, Wageningen, The Netherlands, 15-19 July 2002, American Meteorological Society, 237-238.

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Determination of the carbon and water vapour net ecosystem exchange rates in the Swiss Pre-Alps - a contribution to the CARBOMONT project

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Contributions of railway traffic to local PM10 concentrations - a preliminary field study.

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Uncommon Hygroscopic properties of water-soluble organic matter isolated from atmospheric filter samples.

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Influence of fuel sulfur content on the hygroscopic properties of jet engine combustion particles during PARTEMIS.

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Transport and degradation of polycyclic aromatic hydrocarbons in an alpine valley determined with two-step laser mass spectrometry.

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