

## **List of Publications Regina Hitzenberger (geb. Pirich)**

### **PhD Thesis**

Pirich, R. 1982

Über den Zusammenhang zwischen den optischen Eigenschaften und der Massengrößenverteilung des atmosphärischen Aerosols und seine Beeinflussung durch meteorologische Parameter  
Universität Wien, Juni 1982

### **Publications in peer-reviewed journals**

1)

H. Horvath, O. Preining, R. Pirich 1982

Measurement of the spatial distribution of particulate pollution with a telephotometer  
Atmos. Environ. 16, 1457 - 1461

2)

Pirich, R., Horvath, H. 1983

On the influence of meteorological parameters on extinction and mass size distributions in the urban aerosol of Vienna  
Beitr. Phys. Atmos. 56, 84 - 94

3)

Horvath, H., Pirich, R. 1983

Remarks on the nomenclature in atmospheric optics  
Atmos. Environ. 17, 2625 - 2627

4)

Hitzenberger, R., Husar, R.B. 1984

A comparison of extinction and size distribution data measured at two urban sites in the US and Europe  
Atmos. Environ. 18 (1984) 449 - 452

5)

Hitzenberger, R.M., Husar, R.B., Horvath, H. 1984

An intercomparison of extinction coefficients measured by a telephotometer and scattering coefficients measured by an integrating nephelometer  
Atmos. Environ. 18, 1239 - 1242

6)

Hitzenberger, R., Horvath, H., Pimminger, M., Puxbaum, H. 1985

Variability of rural aerosols under stable weather conditions.  
J. Rech. Atmos. 19, 159-164

7)

Hitzenberger, R. 1985

On the behaviour of the atmospheric scattering coefficient shortly before a change in air mass  
Atmos. Environ. 19, 835 - 838

8)

Hitzenberger, R., Rizzi, R. 1986

Retrieved and measured aerosol mass size distributions: a comparison

Appl. Opt. 25, 546-553

9)

Hitzenberger, R. 1986

Über die Zunahme des atmosphärischen Streukoeffizienten kurz vor einem Frontdurchgang

Wetter und Leben 38, 150-157

10)

Hitzenberger, R. 1986

The behaviour of the atmospheric scattering coefficient under varying meteorological conditions

Theoret. Appl. Climatol. 37, 175-183

11)

G. Raimann, H. Horvath, R. Hitzenberger 1989

Monte-Carlo simulations of slip corrections of spherical and cubic particles

J. Aerosol Sci. 20, 533-546

12)

S. Tohno, R. Hitzenberger 1991

On the effect of the stopping criterion on aerosol size distributions inverted from optical extinction measurements using an iterative technique

J. Aerosol Res. Japan 6, 53-56

13)

R. Hitzenberger 1993

Absorption measurements with an integrating plate photometer - calibration and error analysis.

Aerosol Sci. Technol. 18, 70-84

14)

R. Hitzenberger, H. Puxbaum 1993

Comparisons of the measured and calculated specific absorption coefficient for Vienna urban aerosol samples.

Aerosol Sci. Technol. 18, 323-245

15)

Hitzenberger, R. 1993

Absorption coefficients and mass concentrations of the urban aerosol of Vienna, Austria, during the years 1985 and 1986

Water Air Soil Pollut. 71, 131-153

16)

R. Hitzenberger, R. Rizzi 1993

Telephotometer measurements and retrieved humidity dependent mass increase coefficients of the aerosol size distribution

Nuovo Cimento C, 16, 107-129

17)

R. Hitzenberger, U. Dusek, A. Berner 1996  
Black carbon measurements using an integrating sphere  
J. Geophys. Res. 101, D14, 19601-19606

18)

A. Berner, S. Sidla, Z. Galambos, C. Kruisz, R. Hitzenberger, H. M. ten Brink, G. P. A. Kos (1996)  
Size distributions of soot and other constituents of the atmospheric aerosol  
J. Geophys. Res. 101, D14, 19559-19565

19)

R. Hitzenberger, C. Fohler-Norek, U. Dusek, Z. Galambos, S. Sidla (1996)  
Comparison of recent (1994) black carbon (BC) data with those obtained in 1985 and 1986 in the urban area of Vienna, Austria: implications for future environmental policy decisions.  
Sci. Total Environ. 189/190, 275-280

20)

R. Hitzenberger, U. Dusek, A. Berner, R. Alabashi 1997  
Humidity-dependent growth of size-segregated aerosol samples  
Aerosol Sci. Technol. 27, 116-130

21)

R. Hitzenberger, A. Berner, H. Giebl, R. Kromp, S. M. Larson, A. Rouc, A. Koch, S. Marischka, H. Puxbaum 1999  
Contribution of carbonaceous material to cloud condensation nuclei concentrations in European background (Mt. Sonnblick) and urban (Vienna) aerosols.  
Atmos. Environ. 33, 2647-2659

22)

R. Hitzenberger, S. G. Jennings, S. M. Larson, A. Dillner, H. Cachier, Z. Galambos, T. G. Spain 1999  
Intercomparison of measurement methods for black carbon aerosols.  
Atmos. Environ. 33, 2823-2833

23)

A. Kasper-Giebl, A. Koch, R. Hitzenberger, H. Puxbaum 2000  
Scavenging efficiency of "aerosol carbon" and sulfate in supercooled clouds at Mt. Sonnblick (3106 m a.s.l., Austria)  
J. Atmos. Chem. 35, 33-46

24)

R. Hitzenberger, A. Berner, R. Kromp, A. Kasper-Giebl, A. Limbeck, W. Tschnerwenka, H. Puxbaum 2000  
Black carbon and ionic species at a high-elevation European site (Mt. Sonnblick, 3106m, Austria). Concentrations and scavenging efficiencies.  
J. Geophys. Res. 105, D20, 24637-24646

25)

R. Hitzenberger, S. Tohno 2001

Comparison of black carbon (BC) aerosols in two urban areas (Uji, Japan and Vienna, Austria) - concentrations and size distributions

Atmos. Environ. 35, 2153-2167

26)

H. Schmid, L. Laskus, H. J. Abraham, U. Baltensberger, V. Lavanchy, M. Bizjak, P. Burba, H. Cachier, D. Crow, J. Chow, T. Gnauk, A. Even, H.M. ten Brink, K.-P. Giesen, R. Hitzenberger, C. Hueglin, W. Maenhaut, C. Pio, J.-P. Putaud, D. Toom-Sauntry and H. Puxbaum 2001

Results of the "carbon conference" international aerosol carbon round robin test stage I

Atmos Environ. 35, 2111 - 2121

27)

J. Ballach, E. Schultz, W. Jaeschke and R. Hitzenberger (2001) Development of an improved optical transmission technique for black carbon (BC) analysis

Atmos. Environ. 35, 2089 - 2100

28)

M. Löflund, A. Kasper-Giebl, W. Tschewenka, M. Schmid, H. Giebl, R. Hitzenberger, G. Reischl, H. Puxbaum 2001

A Gas and Aerosol Monitoring System (GAMS) for the Determination of Organic and Inorganic Atmospheric Gases and Particulate Matter

Atmos. Environ. 35, 2861-2869

29)

A. M. Dillner, C. Stein, S. M. Larson, R. Hitzenberger 2001

Measuring the extinction efficiency of elemental carbon in rural aerosol

Aerosol Sci. Technol. 35, 1009-1021

30)

K. Okada, R. Hitzenberger 2001

Mixing properties of individual submicrometer aerosol particles in Vienna

Atmos. Environ. 35, 5617-5628

31)

R. Hitzenberger, A. Berner, H. Giebl, K. Drobesh, A. Kasper-Giebl, M. Loeflund, H. Urban, H. Puxbaum (2001)

Black carbon (BC) in Alpine aerosols and cloud water concentrations and scavenging efficiencies.

Atmos. Environ. 35, 5135 - 5141

## **2002**

32)

Heidi Bauer, Anne Kasper-Giebl, Franziska Zibuschka, Regina Hitzenberger and Hans Puxbaum (2002)

Determination of the Carbon Content of Fungal Spores.

Analytical Chemistry, 74, 91-95

33)

Löflund M., Kasper-Giebl, A., Schuster, B., Giebl, H., Hitzenberger, R., Puxbaum, H. (2002) Formic, Acetic, Oxalic, Malonic and Succinic Acid Concentrations and their Contribution to Organic Carbon in Cloud Water.

Atmos. Environ. 36, 1553-1558

34)

B. Gorbunov, R. Hamilton, R. Hitzenberger 2002  
Modelling radiative transfer by aerosol particles on a filter

Aerosol Sci. Technol. 36, 123 - 135

35)

H. Bauer, A. Kasper-Giebl, M. Löflund, H. Giebl, R. Hitzenberger, F. Zibuschka, H. Puxbaum (2002)

The contribution of bacteria and fungal spores to the organic carbon content of cloud water, precipitation and aerosols.

Atmos. Research 64, 109-119

36)

R. Höller, S. Tohno, M. Kasahara, R. Hitzenberger (2002)

Long-term characterization of carbonaceous aerosol in Uji, Japan.

Atmos. Environ 36, 1267 – 1275

37)

H. Giebl, A. Berner, G. Reischl, H. Puxbaum, A. Kasper-Giebl, R. Hitzenberger (2002)

CCN activation of oxalic and malonic acid test aerosols with the University of Vienna cloud condensation nuclei counter

J. Aerosol Sci. 33, 1623-1634

38)

R. Hitzenberger, A. Berner, A. Kasper-Giebl, M. Löflund, H. Puxbaum (2002) Surface tension of Mt. Rax cloud water and its relation to the concentration of inorganic and organic material.. J. Geophys. Res D24, 2002JD002506, paper ID 4752

## **2003**

39)

K. E. J. Lehtinen, M. Kulmala, P. Ctyroky, T. Futschek, R. Hitzenberger (2003)

Effect of electrolyte diffusion on the growth of NaCl particles by water vapour condensation  
J PHYS CHEM A 107 (3): 346-350 JAN 23 2003

40)

Hitzenberger, Giebl, Petzold, Gysel, Nyeki, Weingartner, Baltensperger, Wilson (2003)

Properties of jet engine combustor particles during the PartEmis experiment. Hygroscopic properties at supersaturated conditions

Geophys. Res. Lett. 30, 14, 1779, doi:10.1029/2003GL017294

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M. Gysel, U. Baltensperger, S. Nyeki, E. Weingartner, H. Giebl, R. Hitzenberger, A. Petzold, C. W. Wilson (2003)

Properties of jet engine combustion particles during the PartEmis experiment. Hygroscopic properties at subsaturated conditions

Geophys. Res. Lett. 30, 11, 1566-1569, doi:10.1029/2003GL016896

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A. Petzold, C. Stein, S. Nyeki, M. Gysel, E. Weingartner, U. Baltensperger, H. Giebl, R. Hitzenberger, A. Döpelheuer, S. Vrchoticky, H. Puxbaum, M. Johnson, C.D. Hurley, R. Marsh, C.W. Wilson (2003)

Properties of jet engine combustor particles during the PartEmis experiment. Part Microphysical and chemical properties

Geophys. Res. Lett. 30, 13, Art. No. 1719

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H. Bauer, H. Giebl, A. Kasper-Giebl, F. Zibuschka, R. Hitzenberger, G. Reischl, H. Puxbaum (2003) Airborne bacteria as cloud condensation nuclei.

J. Geophys. Res., Vol. 108, No. D21, 4658

## 2004

44)

Harry ten Brink, Willy Maenhaut, Regina Hitzenberger, Thomas Gnauk, Gerald Spindler, Arja Even, Konrad Mueller, Janja Turstic, Jean-Philippe Putaud, X.Chi, Axel Berner, Heidi Bauer, Hans Puxbaum (2004)

INTERCOMP 200: the comparability of methods in use in Europe for measuring the carbon content of aerosol

Atmos. Environ. 38, 6507 - 6519

45)

M. Schaap, G. Spindler, Schulz, K. Acker, W. Maenhaut, A. Berner, W. Wieprecht, K. Mueller, R. Hitzenberger, Brüggemann, J.-P. Putaud, U. Baltensperger, H. M. ten Brink (2004)

Artefacts in the sampling of nitrate studied in the "INTERCOMP" campaigns of Eurotrac-AEROSOL

Atmos. Environ. 38, 6487- 6496

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R. Hitzenberger, A. Berner, W. Maenhaut, J. Cafmeyer, J. Schwarz, K. Mueller, G. Spindler, W. Wieprecht, K. Acker, R. Hillamo, T. Mäkelä (2004) Intercomparison of methods to measure the mass concentration of the atmospheric aerosol during INTERCOMP2000 – influence of instrumentation and cut sizes.

Atmos. Environ. 38, 6467-6476

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K. Müller, G. Spindler, W. Maenhaut, W. Wieprecht, R. Hitzenberger, U. Baltensperger, H. ten Brink (2004)

INTERCOMP 2000, a campaign to assess the comparability of methods in use in Europe for

measuring aerosol composition.  
Atmos. Environ.38, 6459 - 6466

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W. Wieprecht, K. Acker, K. Mueller, G. Spindler, E. Brüggemann, W. Maenhaut, R. Hitzenberger, H. Bauer, H. ten Brink (2004) INTERCOMP 2000: Ionic constitution and comparison of filter and impactor.  
Atmos. Environ. 38, 6477 - 6486

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A. Berner, Z. Galambos, P. Ctyroky, P. Frühauf, R. Hitzenberger, B. Gomiscek, H. Puxbaum et al. (2004)  
Relationships of Atmospheric Aerosol Components in the Larger Region of a Central European City.  
Atmos. Environ. 38, 3959-3970

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S. Nyeki, M. Gysel, E. Weingartner, U. Baltensperger, R. Hitzenberger, A. Petzold, C. W. Wilson (2004)  
Properties of jet engine combustion particles during the PartEmis experiment. Particle size spectra ( $d > 15\text{nm}$ ) and volatility.  
Geophysical Research Letters 31, L18105, doi:10.1029/2004GL020569

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A. Petzold, M. Fiebig, L. Fritzsche, C. Stein, U. Schumann, W. Wilson, C.D. Hurley, F. Arnold, E. Katragkou, U. Baltensperger, M. Gysel, S. Nyeki, R. Hitzenberger, H. Giebl, K. J. Hughes, R. Kurtenbach, P. Wiesen, P. Madden, H. Puxbaum, S. Vrchoticky, C. Wahl (2005)  
Particle emissions from aircraft engines – an overview of the European project PartEmis.  
Meteorol. Z. 14, 465-476

52)

A. Petzold, M. Gysel, X. Vancassel, R. Hitzenberger, H. Puxbaum, S. Vrchoticky, E. Weingartner, U. Baltensperger, and P. Mirabel (2005)  
On the effects of hydrocarbon and sulphur-containing compounds on the CCN activation of combustion particles  
Atmos. Chem. Phys. 5: 3187-3203

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53)

U. Dusek, G. P. Reischl, R. Hitzenberger (2006)  
CCN activation of pure and coated carbon black particles.  
Environ. Sci Technol. 40, 1223 – 1230

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J. Turšič, B. Podkrajšek, I. Grgić, P. Ctyroky, A. Berner, U. Dusek, R. Hitzenberger (2006)

Chemical composition and hygroscopic properties of size segregated aerosol particles collected at Adriatic coast of Slovenia  
Chemosphere, 63, 1193-1202

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R. Hitzenberger, A. Petzold, H. Bauer, P. Ctyroky, P. Pouresmaeil, L. Laskus, H. Puxbaum (2006)

Intercomparison of thermal and optical measurement methods for elemental carbon and black carbon at an urban location

Environ. Sci. Technol. 40, 6377-6383

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R. Hitzenberger, J. Tursic, I. Grgic, A. Berner, P. Ctyroky, and B. Podkrajsek (2006)

Particle size distribution of carbon in aerosols collected in Vienna and Ljubljana

Chemosphere 65, 2106-2113

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G. Iorga, R. Hitzenberger, A. Kasper-Giebl, H. Puxbaum (2007)

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J. Geophys. Res. 112, D01204, doi:10.1029/2005JD006828

## 2008

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P. Reisinger, A. Wonaschütz, R. Hitzenberger\*, A. Petzold, H. Bauer, N. Jankowski, H. Puxbaum, X. Chi, W. Maenhaut (2008) Intercomparison of measurement techniques for black or elemental carbon under urban background conditions in wintertime – influence of biomass combustion

Environ. Sci. Technol. 42, 884 - 889

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H. Bauer, E. Schüller, G. Weinke, A. Berger, R. Hitzenberger, I. Marr, H. Puxbaum (2008)

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Atmos. Environ. 42, 5542-5549

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J. Aerosol Sci. 39 (2008) 827–849

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C. Schmidl, H. Bauer, A., R. Hitzenberger, G. Weißenböck, I. L. Marr, H. Puxbaum (2008)

Chemical characterisation of fine particle emissions from burning leaves

Atmos. Environ. 42, 9070–9079



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62)

A. Wonaschütz, R. Hitzenberger\*, H. Bauer, P. Pouresmaeil, B. Klatzer, A. Caseiro, H. Puxbaum (2009) Application of the integrating sphere method to separate the contributions of “brown” and black carbon in atmospheric aerosols  
Environ. Sci. Technol., 2009, 43 (4), 1141-1146

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W. Winiwarter, T. Kuhlbusch, M. Viana, R. Hitzenberger (2009)  
Release of particulate matter into the atmosphere: Quality considerations towards European PM emission inventories.  
Atmos. Environ. 43, 3819 - 3828

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J-P. Putaud, R. Van Dingenen, A. Alastuey, H. Bauer, W. Birmili, J. Cyrys, H. Flentje, S. Fuzzi, R. Gehrig, H.C. Hansson, R.M. Harrison, H. Herrmann, R. Hitzenberger, C. Hüglin, A.M. Jones, A. Kasper-Giebl, G. Kiss, A. Kousa, T.A.J. Kuhlbusch, G. Löschau, W. Maenhaut, A. Molnar, T. Moreno, J. Pekkanen, C. Perrino, M. Pitz, H. Puxbaum, X. Querol, S. Rodriguez, I. Salma, J. Schwarz, J. Smolik, J. Schneider, G. Spindler, H. ten Brink, J. Tursic, M. Viana, A. Wiedensohler, and F. Raes (2010)  
A European Aerosol Phenomenology - 3: physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe.  
Atmospheric Environment 44, 1308-1320

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Atmospheric Environment 45, 5751-5759

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D. Neubauer, A. Vrtala, J. J. Leitner, M. G. Firneis, R. Hitzenberger (2011)  
Development of a model to compute the extension of life supporting zones for Earth-like exoplanets  
Origins of Life and Evolution of Biospheres, DOI 10.1007/s11084-011-9259-9

## 2012

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J. Burkart, R. Hitzenberger, G. P. Reischl, H. Bauer, K. Leder, H. Puxbaum, (2012)  
Activation of “synthetic atmospheric aerosols” - relation to chemical composition of particles <100nm.  
Atmos. Environ. 54, 583 - 591

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T. Borsós, D. Řimnáčová, V. Ždímal, J. Smolík, Z. Wágner, T. Weidinger, J. Burkart, G. Steiner, G. Reischl, R. Hitzenberger, J. Schwarz, I. Salma (2012)  
Comparison of particulate number concentrations in three Central European capital cities  
Sci. Total Environ, 433, 418–426

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M. Laborde, M. Schnaiter, C. Linke, H. Saathoff, K.-H. Naumann, O. Möhler, S. Berlenz, U. Wagner, J. Taylor, M. Flynn, J. Allan, H. Coe, K. Heimerl, F. Dahlkötter, B. Weinzierl, A. Wollny, M. Zanatta, J. Cozic, P.Laj, J.M. Flores, Y. Rudich, R. Hitzenberger, J.P. Schwarz, and M. Gysel (2012)  
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Atmos. Meas. Tech. Discuss., 5, 3519-3573, 2012  
Atmos. Meas. Tech., 5, 3077–3097, 2012

## **2013**

72)

C. A. Randles, S. Kinne, G. Myhre, M. Schulz, P. Stier, J. Fischer, L. Doppler, E. Highwood, C. Ryder, J. Huttunen, Y. Ma, R. T. Pinker, B. Mayer, D. Neubauer, R. Hitzenberger, L. Oreopoulos, D. Lee, G. Pitari, G. Di Genova, Fred G. Rose, S. Kato, S. Rumbold, I. Vardavas, N. Hatzianastassiou, C. Matsoukas, H. Yu, F. Zhang, H. Zhang, and P. Lu (2013)  
Inter-comparison of shortwave radiative transfer schemes in global aerosol modeling: Results from the AeroCom Radiative Transfer Code Experiment  
  
Atmos. Chem. Phys., 13, 2347-2379, 2013

73)

David Neubauer, Johannes J. Leitner, Maria Gertrude Firneis, and Regina Hitzenberger (2013)  
The outer limit of the life supporting zone of exoplanets having CO<sub>2</sub>-rich atmospheres: Virtual exoplanets and Kepler planetary candidates  
Planetary and Space Science 84, 163-172

## **2014**

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U. Dusek, M. Monaco, M. Prokopiou, F. Gonggriep, R. Hitzenberger, H. A. J. Meijer, T. Röckmann (2014)

Evaluation of a 2-step thermal method for separating organic and elemental carbon for radiocarbon analysis

Atmos. Measurement Techn. Discussion 7, 131–169, 2014

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P. Panteliadis, T. Hafkenscheid, B. Cary, L. Diapouli, A. Fischer, O. Favez, P. Quincey, M. Viana, R. Hitzenberger, R. Vecchi, T. Maggos, J. Sciare, J.L. Jaffrezo, A. John, J. Schwarz, M. Chiari, J. Novak, P. Fermo and W. Maenhaut (2014)

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Assessing optical properties and refractive index of combustion aerosol particles through combined experimental and modeling studies (2015)

Aerosol Science and Technology, 49:5, 340-350

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T. Zolles, J. Burkart, B. Pummer, R. Hitzenberger, H. Grothe (2015)

Identification of ice nucleation active sites on feldspar dust particles

J. Phys. Chem. A, 119, 2692–2700

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A. Filep, L. Drinovec, A. Palagyi, L. Manczinger, C. Vagvolgyi, Z. Bozoki, R. Hitzenberger, G. Szabo (2015)

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Aerosol and Air Quality Research, 15: 2325–2331, 2015

## 2016

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Taubner R.-S., Leitner J.J., Firneis M.G., Hitzenberger R. (2016)

Modelling the Interior Structure of Enceladus based on the new Cassini Gravity Data

Origins of Life and Evolution of Biospheres, 46, 283-288

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N. Zíková, P. Vodička, W. Ludwig, R. Hitzenberger, J. Schwarz (2016)

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82)

W. Ludwig, S. Eggl, D. Neubauer, J. Leitner, M. G. Firneis, R. Hitzenberger (2016)

Effective stellar flux calculations for limits of Life-supporting zones of exoplanets

Monthly Notices Royal Astronomical Society MNRAS 458, 3752-3759

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C. Linke, I. Ibrahim, N. Schleicher, R. Hitzenberger, U. Pöschl, M. Schnaiter (2016)

A novel single cavity multi-wavelength photoacoustic spectrometer for atmospheric aerosol research.

Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2016-75, 2016

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U. Dusek, M. Monaco, A. Kappetijn, R. Hitzenberger, A. Kasper-Giebl, M. Kistler, H.A.J. Meijer, S. Szidat, R. Holzinger, T. Röckmann (2016)

Sources and formation mechanisms of carbonaceous aerosol at a regional background site in the Netherlands: Insights from a year-long radiocarbon study

Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-624, 2016

## **2017**

85)

U. Dusek, M. Monaco, A. Kappetijn, R. Hitzenberger, A. Kasper-Giebl, M. Kistler, H.A.J. Meijer, S. Szidat, R. Holzinger, T. Röckmann (2017)

"Sources and formation mechanisms of carbonaceous aerosol at a regional background site in the Netherlands: Insights from a year-long radiocarbon study"

Atmos. Chem. Phys. 17, Issue 5, 3233-3251, 2017, doi: 10.5194/acp-17-3233-2017

**Conference Contributions** (partly published as non-peer reviewed Extended Abstracts)

T1)

Presle, G., Pirich, R. 1979

The relation between changes of the extinction coefficient and relative humidity  
GaeF Conference, Düsseldorf

Abstract in J. Aerosol Sci. 1980

T2)

Pirich, R.M., Horvath, H., Husar, R.B., Husar, J.D. 1980

Intercomparison of extinction, scattering coefficient, mass and sulfur size distribution of the  
St. Louis aerosol in spring 1980

Symposium on Visibility and Plumes, Grand Canyon 1980

T3)

Hitzenberger, R., Horvath, H., Pimminger, M., Puxbaum, H. 1984

Variability of rural aerosols under stable weather conditions

11th International Conference on atmospheric aerosols, condensation and ice nuclei, 3-8 Sept.  
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Intercomparison of measurement techniques for black or elemental carbon under urban background conditions in wintertime

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Invited lecture

T93)

Viana M., Kuhlbusch T.A.J., Querol X., Alastuey A., Harrison R.M., Hopke P.K., Winiwarter W., Vallius M., Szidat S., Prévôt A.S.H., Hueglin C., Bloemen H., Wählin P., Vecchi R., Miranda A.I., Kasper-Giebl A., Maenhaut W., Hitzenberger R (2009)

Source apportionment analysis of transport-related PM sources in Europe

17th Transport and Air Pollution symposium and 3rd Environment and Transport Symposium, Toulouse June 2-4, 2009

T94)

Wex, H., J. Burkhart, T. Clauss, D. Covert, E. Hallbauer, S. Hartmann, R. Hitzenberger, A. Kiselev, T. Mentel, K. Mildenerger, D. Niedermeier, L. Poulain, P. Reitz, J. Schmale, J. Schneider, R. Shaw, C. Spindler, F. Stratmann (2009)

FROST – Freezing of coated and uncoated dust particles

EGU General Assembly, April 19 – 24, Vienna, Austria

T95)

Wex, H., Niedermeier, D., Hartmann, S., and the FROST -Team  
FROST – FReezing Of duST (2009)  
Goldschmidt Conference, June 21 – 26, Davos, Switzerland

T96)

D.Niedermeier, J. Burkhart, T. Clauss, D. Covert, E. Hallbauer, S. Hartmann, R. Hitzenberger, A. Kiselev, T. Mentel, K. Mildenerger, L. Poulain, P. Reitz, J. Schmale, J. Schneider, R. Shaw, C. Spindler, F. Stratmann, H. Wex (2009)  
FROST - FReezing and activation abilities Of coated and uncoated duST particles  
IAMAS Conference, Montreal, June 19 – 29

T97)

D. Niedermeier<sup>1</sup>, S. Hartmann<sup>1</sup>, R. Shaw<sup>1,2</sup>, D. Covert<sup>3</sup>, Th. F. Mentel<sup>4</sup>, L. Poulain<sup>1</sup>, P. Reitz<sup>5,6</sup>, J. Schmale<sup>5</sup>, J. Schneider<sup>5</sup>, C. Spindler<sup>4</sup>, T. Clauss<sup>1</sup>, A. Kiselev<sup>1</sup>, E. Hallbauer<sup>1</sup>, H. Wex<sup>1</sup>, K. Mildenerger<sup>1</sup>, J. Burkart<sup>7</sup>, R. Hitzenberger<sup>7</sup> and F. Stratmann<sup>1</sup> (2009)  
Freezing and Activation Measurements of Coated and Uncoated Arizona Test Dust Particles - Results of the Measurement Campaign FROST  
ICNAA 2009, Prag

T98)

David Neubauer<sup>1</sup>, Aron Vrtala<sup>1</sup>, Hans Puxbaum<sup>2</sup>, Anne Kasper-Giebl<sup>2</sup>, Regina Hitzenberger<sup>1</sup> (2009)  
Modeling The Indirect Aerosol Effect Of Background Aerosol In Austria.  
ICNAA 2009, Prag

T99)

J. Burkart, G. Steiner, G. Reischl and R. Hitzenberger (2009)  
A Long-Term Study on the Cloud Condensation Nuclei (CCN) Activation of the Atmospheric Aerosol in Vienna.  
ICNAA 2009, Prag

T100)

D. Neubauer<sup>1</sup>, A. Vrtala<sup>1</sup>, H. Puxbaum<sup>2</sup>, R. Hitzenberger<sup>1</sup> (2009)  
Simulation of the indirect effect of Austrian background aerosol: Description of the model  
EAC 2009, Karlsruhe

T101)

J. Burkart, G. Steiner, G. Reischl and R. Hitzenberger (2009)  
Cloud Condensation Nuclei (CCN) at an urban location.  
EAC 2009, Karlsruhe

T102)

J. Burkart<sup>1</sup>, H. Moshhammer<sup>2</sup>, M. Neuberger<sup>2</sup>, G. Steiner<sup>1</sup>, G. Reischl<sup>1</sup> and R. Hitzenberger<sup>1</sup> (2009)  
Intercomparison of two types of portable optical particle counters (Grimm model 1.109 and 1.108) at an urban aerosol measurement station  
EAC 2009, Karlsruhe

T103)

T. Torzicky and R. Hitzenberger (2009)

Water uptake and retention by filter material used for PM sampling  
EAC 2009, Karlsruhe

T104)

T.A.J.Kuhlbusch, A. Petzold, R. Hitzenberger (2009)  
Background and Introduction to Measurement Techniques  
EC/OC Workshop, JRC Ispra, February 2009

T105)

R. Hitzenberger, A. Wonaschütz, H. Bauer, P. Pouresmaeil, B. Klatzer, A. Caseiro, H. Puxbaum (2009)  
Separating the contributions of Black and Brown Carbon in urban aerosols  
INTROP Final Conference - Tropospheric Chemistry, Portoroz, April 14-17 2009

T106)

Firneis M. G., Leitner J. J. and Hitzenberger R. (2009)  
The Life Supporting Zone ? Looking for Life as we do not Know at Present Times,  
Paper presented at the 4th European Planetology Science Congress, September 14-18, 2009,  
held in Potsdam, Germany; Abstracts of the European Planetary Science Congress, 2009,  
Abstract No. EPSC2009-554.  
(VORTRAG)

T107)

Firneis, M. G., Hitzenberger R., and Leitner J. J. (2009) Exotic Life Markers in Potential  
Planetary System Habitats  
Paper presented at the General Assembly to the Austria Society for Astronomy and  
Astrophysics, September 2-4, 2009, held in Innsbruck, Austria; Abstracts of the General  
Assembly to the Austria Society for Astronomy and Astrophysics, p. 153.  
(POSTER)

T108)

J. J. Leitner, R. Schwarz, M. G. Firneis, R. Hitzenberger, D. Neubauer (2010)  
Generalizing habitable zones in exoplanetary systems – the concept of the life supporting  
zone.  
Astrobiology Science Conference, Houston, April 2010

T109)

J. J. Leitner, D. Neubauer, R. Schwarz, S. Eggl, M. G. Firneis, R. Hitzenberger (2010)  
The Life Supporting Zone I – From Classic to Exotic Life  
European Planetary Science Congress, Rome, September 2010

T110)

D. Neubauer, A. Vrtala, R. Hitzenberger  
Life supporting zone: Computation of width and location  
European Planetary Science Congress, Rome, September 2010

T111)

Leitner J. J., Firneis M. G., Hitzenberger R., 2010, Potential Habitats for Exotic Life  
Within the Life Supporting Zone; General Assembly of the European Geosciences  
Union 2010, Wien, Österreich, Mai 2010

T112)

Leitner J. J., Lammer H., Leitzinger M., Odert P., Firneis M. G., Hitzenberger R., Neubauer D., 2010, The Interior of Terrestrial-Like Exoplanets; 10th European Astrobiology Network Association Science Congress, Puschtschino, Russland, September 2010

T113)

Leitner J. J., Schulze-Makuch D., Firneis M. G., Hitzenberger R., Neubauer D., 2010, Solvents of Interest for Exotic Life on Planetary Bodies in Life Supporting Zones Around Main Sequence Stars; 10th European Astrobiology Network Association Science Congress, Puschtschino, Russland, September 2010

T114)

J. Burkart, R. Hitzenberger, G. Reischl, G. Steiner, H. Bauer, K. Leder, M. Rzaca, H. Puxbaum (2010)

Characteristics of CCN activation at an urban location - Comparison between ambient and laboratory measurements

International Aerosol Conference, Helsinki, Sept 2010

T115)

D. Neubauer, A. Vrtala, H. Puxbaum, R. Hitzenberger (2010)

Simulation of the indirect effect of Austrian background aerosol using combined aerosol and cloud data

International Aerosol Conference, Helsinki, Sept 2010

T116)

R. Hitzenberger, Rosati B. (2010)

Laboratory investigation of interferences in thermal and optical carbon analysis

International Aerosol Conference, Helsinki, Sept 2010

T117)

Tanja Dobovicnik, Heidi Bauer, Grisa Mocnik, Andreas Petzold, Amir Ibrahim, Regina Hitzenberger (2011) On-line optical and off-line thermo-optical characterization of diffusion flame combustion aerosols.

ICCPA 2011, Vienna, Austria

T118)

Andreas Petzold, Amir Ibrahim, Heidi Bauer, Tanja Dobovicnic, Grisa Mocnik, Regina Hitzenberger, Simon Christie, Vladimir Vishnyakov, Dave Raper, Delphine Lottin, David Delhaye, Richard Marsh, Yura Sevcenco, Andrew Crayford, Mark Johnson (2011)

Closure study on optical, microphysical and chemical properties of two types of combustion aerosols .

ICCPA 2011, Vienna, Austria

T119)

U. Dusek, M. Prokopiou, F. Gongriep, R. Holzinger, R. Hitzenberger, T. Röckmann (2011)

Tests of OC/EC separation in a thermal extraction system for <sup>14</sup>C analysis.

ICCPA 2011, Vienna, Austria

T120)

M.Rzaca, C.Schmidl, E. Padouvas, H.Bauer, R. Hitzenberger and H.Puxbaum (2011)  
Gas, particle and odour emissions from log wood combustion in  
a small scale wood stove.  
ICCPA 2011, Vienna, Austria

T121)

David Neubauer, Aron Vrtala, Johannes Leitner, Maria Gertrude Firneis, Regina Hitzenberger  
(2011) Computation of the extension of life supporting zones.  
Origins 2011 Conference, Montpellier, Juli 2011

T122)

J. Burkart, R. Hitzenberger, G. Reischl, G. Steiner, H. Bauer, K. Leder, M. Rzaca H.  
Puxbaum (2011)  
Activation of “synthetic atmospheric aerosols“ – relation to chemical composition of particles  
<100nm  
European Aerosol Conference, Manchester, Sept. 2011

T123)

R. Hitzenberger, E. Traxler, and B. Rosati (2011)  
Interferences in thermo-optical measurements of elemental and organic carbon caused by  
other aerosol constituents  
European Aerosol Conference, Manchester, Sept. 2011

T124)

D. Neubauer, A. Vrtala, J. J. Leitner, M. G. Firneis, R. Hitzenberger (2011)  
Computation of the life supporting zone  
EPSC Abstracts, Vol. 6, EPSC-DPS2011-218, 2011, EPSC-DPS Joint Meeting 2011  
European Planetary Science Conference, Nantes, Oct 2 – 7, 2011

T 125)

Leitner, J, Firneis, MG, Neubauer, D & Hitzenberger, R 2011, 'Research Platform on ExoLife  
– Research on Astrobiology  
at the University of Vienna' International Conference on the History and Philosophy of  
Astrobiology, Österreich,

T126)

David Neubauer, Aron Vrtala, Johannes J. Leitner, Maria G. Firneis, Regina Hitzenberger  
(2012)  
The life supporting zone and clouds and radiative transfer in (exo)planetary atmospheres  
VSC Workshop Neusiedl am See, February 2012

T127)

David Neubauer, Aron Vrtala, Johannes J. Leitner, Maria Gertrude Firneis, Regina  
Hitzenberger (2012)  
The Life Supporting Zone of Kepler-22b and the Kepler Planetary Candidates: KOI268.01,  
KOI701.03, KOI854.01 and KOI1026.01  
EXOLIFE Workshop, Vienna, May 2012

T128)

R. Hitzenberger, Cloud Condensation Nuclei (CCN) Activation In Urban And Continental Background Regions. Invited plenary lecture, T4 Conference, Budapest, Hungary (2012)

T129)

J. Burkart, R. Hitzenberger, G. Reischl, H. Bauer, K. Leder, H. Puxbaum (2012)  
Activation diameters, hygroscopicity parameters ( $\kappa$ ) and chemical composition of „synthetic ambient” aerosols < 100nm.  
International Cloud and Precipitation Physics conference, Leipzig, 28 July to 3 August, 2012.

T130)

J. Kim, H. Bauer, T. Dobovicnik, R. Hitzenberger, D.Lottin, D. Ferry, A. Petzold (2012)  
Constraining optical properties and refractive index of soot through combined experimental and modelling studies  
European Aerosol Conference, Granada, September 2012

T131)

Tanja Dobovicnik, Heidi Bauer, Hans Puxbaum, Andreas Petzold, Amir Ibrahim, Regina Hitzenberger, Grisa Mocnik (2012)  
A two component optical absorption model for interpretation of different combustion conditions  
European Aerosol Conference, Granada, September 2012

T132)

Jaroslav Schwarz, Petr Vodička, Naděžda Zíková, Regina Hitzenberger 2012  
Mass size distributions of water soluble ions in Prague and Vienna in summer  
Czech Aerosol Society Conference, Prag, 25.- 26. 10. 2012

T 133)

Leitner, J, Lammer, H, Leitzinger, M, Odert, P, Firneis, MG, Hitzenberger, R & Neubauer, D  
2012, 'The Interior of  
Terrestrial-Like Exoplanets' Paleontological Journal, Bd 46, Nr. 9, S. 1090-1091.

T134)

Leitner J. J., Schulze-Makuch D., Firneis M. G., Hitzenberger R., Neubauer D. (2012)  
Solvents of Interest for Exotic Life on Planetary Bodies in Life Supporting Zones Around Main Sequence Stars  
Paleontological Journal, Vol. 46, Issue 9, p. 1091.

T135)

A. Kasper-Giebl, I. Meran, U. Nickus, R. Hitzenberger, G. Mocnik, L. Drinovec, G. Schauer  
2012  
Aerosol Measurements at the Sonnblick Observatory. On-line Identifications of Long-Range Transport of Particulate Matter  
5<sup>th</sup> Symposium for Research in Protected Areas, 10-12 June 2013, Mittersill

T136)

J. Schwarz, N. Zíková, P. Vodička, I. Ševčíková, J. Kugler, A. Wonaschuetz, R. Wagner, I. Aschauer, W. Ludwig, R. Haindl, G. Zecha, R. Hitzenberger and V. Ždímal 2013  
Comparison of mass size distribution of PM and ions in Prague and Vienna in winter and summer

European Aerosol Conference, Prague, September 2013

T137)

A. Wonaschuetz, R. Wagner, I. Aschauer, R. Haindl, W. Ludwig, G. Zecha, J. Ondráček, P. Vodička, N. Zíková, V. Ždímal, J. Schwarz, R. Hitzenberger 2013

Ultrafine particle concentrations: importance of local sources and new particle formation in two central European cities

European Aerosol Conference, Prague, September 2013

T138)

R. Hitzenberger, J. Schwarz, I. Aschauer, R. Haindl, W. Ludwig, R. Wagner, A. Wonaschuetz, G. Zecha, I. Ševčíková, P. Vodička, N. Zíková, and V. Ždímal 2013

Comparability of methods to measure black and elemental carbon in two European urban areas - site and seasonal similarities and differences

European Aerosol Conference, Prague, September 2013

T139)

N. Zíková, T. Borsós<sup>2</sup>, D. Římnáčová, J. Smolík, Z. Wagner, T. Weidinger, J. Burkart, G. Steiner, G. Reischl, R. Hitzenberger, J. Schwarz, I. Salma and V. Ždímal 2013

Comparison of particle number size distributions in three Central European capital cities

European Aerosol Conference, Prague, September 2013

T140)

C. Linke, I. Ibrahim, R. Hitzenberger and M. Schnaiter 2013

Carbonaceous aerosols and variations in their light absorbing properties

European Aerosol Conference, Prague, September 2013

T141)

A. Wonaschütz, J. Burkart, R. Haindl, J. Palmetshofer, G. Reischl, G. Steiner, R. Wagner, R. Hitzenberger 2013

New particle formation in an urban atmosphere: seasonal dependence and influence of air mass origin

32<sup>nd</sup> Annual Conference, American Association for Aerosol Research, September 2013

T142)

J. Burkart, G. Reischl, G. Steiner, H. Bauer<sup>†</sup>, K. Leder, M. Kistler, H. Puxbaum, R. Hitzenberger (2013)

CCN Activation of Ambient And “Synthetic Ambient” Urban Aerosol

ICNAA 2013, June 2013, Ft. Collins, USA

T143)

M. Laborde, G. Kassell, A. Kasper-Giebl, I. Meran, U. Nickus, R. Hitzenberger, A. Wonaschütz, G. Mocnik, L. Drinovec, G. Wotawa, G. Schauer (2013)

Influence of Saharan dust events on scattering phase function

Conference on Optical Characterization of Atmospheric Aerosols, Smolenice, Slovakia

T 144)

Filep Ágnes, Bozóki Zoltán, Hitzenberger Regina, Szabó Gábor (2013)

Source identification of carbonaceous particles according to their optical properties and particle number size distribution  
Conference Hungarian Aerosol Society, Debrecen, 28. – 30. Oct., 2013

T 145)

Pollack-Drs, S, Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013  
'Estimations on the Physical Conditions at the Sea Floor of the Potential Subsurface Ocean of Jupiter's moon Europa and its Implications for Life'  
European Planetary Science Congress 2013 (EPSC), London

T146)

Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013  
'The Inner Structure of the Planets Kepler-62 e and Kepler-62 f'  
European Planetary Science Congress 2013 (EPSC), London

T147)

Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013  
,Estimates on the physical conditions at the sea floor of the potential subsurface water reservoir of Enceladus'  
European Astrobiology Network Association Meeting (EANA) Szczecin, Poland

T148)

Leitner, J, Firneis, MG & Hitzenberger, R 2013,  
'Astrobiology as a starting point for natural sciences for school and university students – Initiatives in Austria'  
European Astrobiology Network Association Meeting (EANA), Szczecin, Poland

T149)

Leitner, J, Firneis, MG & Hitzenberger, R 2013  
'Astrobiology as an interdisciplinary starting point to natural sciences'  
63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T150)

Leitner, J, Firneis, MG & Hitzenberger, R 2013,  
'Astrobiology as an interdisciplinary starting point to natural sciences for high-potential children'  
European Planetary Science Congress 2013 (EPSC), London

T151)

Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013  
'Kepler-62e and Kepler-62f. The potential internal structure of these habitable worlds'  
63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T152)

Kiss, G, Leitner, J, Firneis, MG & Hitzenberger, R 2013  
'Modeling the evolution and fate of early Mars' hypothesized ocean'  
63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T153)

Taubner, R-S, Leitner, J, Pollack, S, Firneis, MG & Hitzenberger, R 2013



'On the internal structure of Enceladus'

63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T154)

Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013

'The inner structure of Enceladus – Physical conditions at the bottom of its potential subsurface water reservoir'

European Planetary Science Congress 2013 (EPSC), London

T155)

Pollack, S, Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013

'The inner structure of Jupiter's Moon Europa – Estimations on the physical conditions at the sea floor of its potential subsurface ocean'

63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T156)

Turse, C, Khan, A, Leitner, J, Firneis, MG, Hitzenberger, R & Schulze-Makuch, D 2013

'The origin of amino acids under impact conditions on early Titan'

European Astrobiology Network Association Meeting (EANA), Szczecin, Poland

T157)

W. Ludwig, S. Eggl, D. Neubauer, J. Leitner, M.G. Firneis, R. Hitzenberger (2014)

Radiative Convective Transfer Calculations for Effective Stellar Fluxes of Habitable and Life Supporting Zones

EGU April 2014, Vienna

T158)

A. Wonaschütz, J. Burkart, R. Wagner, C. Dameto de Espana, G. Reischl, G. Steiner, R. Hitzenberger (2014)

New particle formation events as a source for cloud condensation nuclei in an urban environment

EGU April 2014, Vienna

T159)

R.-S. Taubner, J.J. Leitner, M.G. Firneis, R. Hitzenberger (2014)

Estimations on the Interior of small icy bodies in the Solar System

EGU April 2014, Vienna

T 160)

J. Ofner, A. Kasper-Giebl, M. Kistler, J. Matzl, G. Schauer, R. Hitzenberger, J. Lohninger, B. Lendl (2014)

Raman microscopy of size-segregated aerosol particles, collected at the Sonnblick Observatory in Austria

EGU April 2014, Vienna

T161)

U. Dusek, R. Holzinger, H.J.A Meijer, A. Kasper-Giebel, R. Hitzenberger, T. Röckmann (2014)

Sources of carbonaceous aerosol in the Netherlands: the importance of long-range transport  
International Aerosol Conference August 2014, Busan, Korea

T162)

A. Wonaschütz, J. Burkart, R. Wagner, C. Dameto de Espana, G. Reischl, G. Steiner, R. Hitzenberger (2014)

On the importance of new particle formation events as a source for cloud condensation nuclei in an urban environment

AAAR conference, October 2014, Orlando

T163)

R. Hitzenberger, J. Schwarz, I. Aschauer, R. Haindl, W. Ludwig, R. Wagner, A. Wonaschuetz, G. Zecha, P. Vodička, Z. Wágner, N. Ziková, V. Ždímal (2014)

Black and elemental carbon in two European urban areas – temporal trends, site and seasonal similarities and differences

AAAR conference, October 2014, Orlando

T164)

R.-S. Taubner, J.J. Leitner, M.G. Firneis, R. Hitzenberger (2014)

Including Cassini's Gravity Measurements from the Flybys E9, E12, E19 into Interior Structure Models of Enceladus

European Planetary Science Congress 7. – 12. Sept 2014, Cascais, Portugal

T165)

J. J. Leitner, R.-S. Taubner, M. G. Firneis, R. Hitzenberger (2014)

Using "The Big Bang Theory's" World in Young High-Potentials Education

European Planetary Science Congress 7. – 12. Sept 2014, Cascais, Portugal

T166)

G. Schauer, A. Kasper-Giebl, R. Hitzenberger, A. Wonaschütz, G. Wotawa, G. Močnik (2014)

Identification of long-range transport of particulate matter at Sonnblick Observatory  
Symposium on Atmospheric Chemistry and Physics at Mountain Sites, August 11-15, Steamboat Springs, CO, USA.

T167)

G. Schauer, J.M. Carmona, A. Kasper-Giebl, R. Hitzenberger (2014)

Applied machine learning methods for pattern analysis and re-identification of ambient air measurements

Symposium on Atmospheric Chemistry and Physics at Mountain Sites, August 11-15, Steamboat Springs, CO, USA.

T 168)

J. Leitner, R.-S. Taubner, M. Firneis and R. Hitzenberger (2014)

From "The Big Bang Theory" to Young High-Potentials Education in Physics

64. annual meeting Austrian Physical Society (ÖPG) 2014, Pöllau, Austria

T 169)

R.-S. Taubner, J. Leitner, M. Firneis and R. Hitzenberger (2014)

Including new Cassini's Gravity Measurements into Interior Structure Models of Enceladus

64. annual meeting Austrian Physical Society (ÖPG) 2014, Pöllau, Austria

T 170)

Taubner R.-S., Rittmann S. K.-M. R., Leitner J. J., Schleper C., Firneis M. G., Hitzemberger R., 2014, Assessing the feasibility to cultivate methanogens under Enceladus-like conditions reservoir; Abstracts of the 14th European Workshop on Astrobiology, held in Edinburgh, October 13–16.

T 171)

Taubner R.-S., Rittmann S. K.-M. R., Leitner J. J., Schleper C., Firneis M. G., Hitzemberger R., 2014, Assessing the feasibility to cultivate methanogens under Enceladus-like conditions reservoir; Poster presented at the “Summer course on Exoplanets”, held in La Palma, September 24 – October 2.

T172)

A. Wonaschütz, R. Hitzemberger (2015)

Measurement of internal and external mixtures of test aerosols with a new Single Particle Aerosol Mass Spectrometer

Geophysical Research Abstracts, Vol. 17, EGU2015-9449-1, 2015

EGU General Assembly 2015

T173)

T. Zolles, J. Burkart, T. Häusler, B. Pummer, R. Hitzemberger, H. Grothe (2015)

Identification of Ice Nucleation Active Sites on Silicate Dust Particles

Geophysical Research Abstracts, Vol. 17, EGU2015-14085, 2015

EGU General Assembly 2015

T174)

M. C. Dameto de Espana, A. Wonaschuetz, A. Demattio, G. Steiner, R. Hitzemberger (2015)

Long-term study on the impact of new particle formation on CCN in an urban background location

Geophysical Research Abstracts, Vol. 17, EGU2015-6516, 2015

EGU General Assembly 2015

T175)

C. Dameto de España, A. Wonaschuetz, G. Steiner, A. Demattio, R. Hitzemberger (2015)

Long-term study of Cloud Condensation Nuclei (CCN) concentrations associated with New Particle Formation (NPF) events in the urban background of Vienna

European Aerosol Conference, Milan, Sept. 2015

T176)

A. Wonaschuetz, P. Kallinger, W. Szymanski, R. Hitzemberger (2015)

Chemical composition of radiolytically formed particles using mass spectrometry

European Aerosol Conference, Milan, Sept. 2015

T177)

J. Ofner, M. Kistler, J. Matzl, E. C. Cetintas, E. Schreiner, G. Schauer, R. Hitzemberger, E. Eitenberger, G. Friedbacher, B. Lendl, H. Lohninger, A. Kasper-Giebl (2015)

Comparison of bulk and imaging-based analysis of aerosol particles, collected at the Sonnblick Observatory in Austria: First attempts towards image-based quantification

International Conference on Advanced Vibrational Spectroscopy 2015, Vienna, Austria

T178)

M. Furuuchi, R. Hitzenberger, W.W. Szymanski, M. Hata (2015)

Relation between particle-bound brown carbon and carbon components evaluated by thermal optical method

Asian Aerosol Conference, 2015

T179)

Remote and still alert-eyed – aerosol research at the Sonnblick Observatory (2015)

A. Kasper-Giebl, G. Schauer, G. Mocnik, M. Kistler, J. Ofner, H. Lohninger, R.

Hitzenberger, A. Wonaschütz, U. Nickus, L. Beck

Virtual Alpine Observatory Symposium, Salzburg, Oct. 2015

T 180)

Zibrid N., Ludwig W., Leitner J. J., Taubner R.-S., Firneis M. G., Hitzenberger R., 2015, The radiation of M-stars and their impact on phototrophic organisms; Abstracts of the Joint Annual Meeting of the Austrian Physical Society, Vienna, September 1–4.

T181)

T.Haller, T.Häusler, L. Witek, H.Grothe, R.Hitzenberger (2016)

Structural changes of combustion aerosol samples during a thermal-optical measurement protocol

European Aerosol Conference, Tours, September 2016

T182)

C. Dameto de España, A. Wonaschuetz, G. Steiner, A. Demattio, R. Hitzenberger (2016)

Long-term study of New Particle Formation (NPF) events as a source of Cloud Condensation Nuclei (CCN) concentrations in the urban background of Vienna

European Aerosol Conference, Tours, September 2016

T183)

O. Möhler, N. Hiranuma, D. J. Cziczo, P. J. DeMott, R. Ullrich, C. Hoose, R. Wagner, T.

Schiebel, K. Höhler, H. Saathoff, C. Mohr, A. Ahern, R. Sullivan, H. Al-Mashat, K. Prather,

D. Bell, J. Wilson, A. Zelenyuk, N. Marsden, H. Coe, F. Marth, B. Sierau, S. Schmitt, J.

Schneider, A. Wonaschütz, R. Hitzenberger, M. A. Zawadowicz (2016)

Suppression of the feldspar ice nucleation activity by thin coating layers of secondary organics and sulphuric acid

International Conference on Clouds and Precipitation, Manchester, July 2016

T184)

R. Hitzenberger, B. Weinzierl, A. Wonaschuetz, W.W. Szymanski (2016)

Characterization of optical properties of atmospheric aerosols

International Symposium on Trans-boundary Pollution and Integrated Research Studies,

Kanazawa, Japan, 7. – 9. March 2016

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