

List of References Regina Hitzemberger (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)

Hitzemberger, 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)

Hitzemberger, 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)

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

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

7)

Hitzemberger, R. 1985

On the behaviour of the atmospheric scattering coefficient shortly before a change in airmass
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. Tscherwenka, 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

41)
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

42)

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

43)

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

46)

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

47)

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

48)

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

49)

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

50)

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

2005

51)

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 PartEmiss.
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

2006

53)

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

54)

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

55)

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

56)

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

2007

57)

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

Direct radiative effect modelled for regional aerosols in Central Europe including the effect of relative humidity

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

2008

58)

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

59)

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

Significant contributions of fungal spores to the atmospheric particulate organic carbon and to the PM₁₀ mass in an urban environment.

Atmos. Environ. 42, 5542-5549

60)

M. Viana, T.A.J. Kuhlbusch, T. A. J., X. Querol, A. Alastuey, R.M. Harrison, R. M., P.K. Hopke, W. Winiwarter, M. Vallius, S. Szidat, A.S.H. Prevot, A. S. H., C. Hueglin, H. Bloemen, P. Wahlin, R. Vecchi, A.I. Miranda, A. Kasper-Giebl, W. Maenhaut, R. Hitzenberger, (2008) Source apportionment of PM in Europe: a meta-analysis of methods and results.

J. Aerosol Sci. 39 (2008) 827–849

61)

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

2009

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

63)

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

2010

64)

J-P. Putaud, R. Van Dingenen, A. Alastuey, H. Bauer, W. Birmili, J. Cyrus, 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

65)

J. Burkart, H. Moshhammer, M. Neuberger, G. Steiner, G. Reischl and R. Hitzenberger (2010)
Characterizing the performance of two optical particle counters (Grimm OPC1.108 and OPC1.109) under urban conditions
J. Aerosol Sci. 41, 953–962

2011

66)

J. Burkart, G. Steiner, G. Reischl and R. Hitzenberger (2011)
Overview of a Long-Term Study on the Cloud Condensation Nuclei (CCN) Activation of the Atmospheric Aerosol in Vienna.
Atmospheric Environment 45, 5751-5759

67)

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

68)

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

69)

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

70)

D. Neubauer, A. Vrtala, J. J. Leitner, M. G. Firneis, R. Hitzenberger (2012)
The Life Supporting Zone of Kepler-22b and the Kepler Planetary Candidates: KOI268.01, KOI701.03, KOI854.01 and KOI1026.01
Planetary and Space Science 73 (2012) 397–406

71)

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)
Single Particle Soot photometer intercomparison at the AIDA chamber.
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 CO₂-rich atmospheres: Virtual exoplanets and Kepler planetary candidates
Planetary and Space Science 84, 163-172

2014

74)

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
Atmos. Meas. Tech., 7, 1943-1955, 2014

75)

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)

ECOC comparison exercise with identical thermal protocols after temperature offsets correction. Instrument diagnostics by in-depth evaluation of operational parameters. Atmos. Meas. Tech. Discuss., 7, 8697–8742, 2014

2015

76)

J. Kim, H. Bauer (†), T. Dobovicnik, R. Hitzenberger, D. Lottin, D. Ferry, A. Petzold (2014)

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

77)

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

<http://dx.doi.org/10.1021/jp509839x>

78)

Wonaschütz, A., Dematio, A., Wagner, R., Burkart, J., Zíková, N., Vodička, P., Ludwig, W., Steiner, G., Schwarz, J., Hitzenberger, R. (2015)

Seasonality of new particle formation in Vienna, Austria – influence of air mass origin and aerosol chemical composition

Atmos. Environ. 118, 118-126, 2015, doi: 10.1016/j.atmosenv.2015.07.035

79)

Taubner R.-S., Leitner J.J., Firneis M.G., Hitzenberger R. (2015)

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

Accepted for publication, Origins of Life and Evolution of Biospheres

80)

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

Source specific cyto- and genotoxicity of atmospheric aerosol samples

Accepted for publication, Aerosol and Air Quality Research

Submitted

81)

N. Zíková, P. Vodička, W. Ludwig, R. Hitzenberger, J. Schwarz (2015)

On the use of the field Sunset semi-online analyzer to measure black carbon concentrations

Submitted, Aerosol Sci. Technol.

82)

W. Ludwig, S. Eggl, D. Neubauer, J. Leitner, M. G. Firneis, R. Hitzenberger (2015)

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

Submitted, Monthly Notices Royal astronomical Society

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.
1984, Budapest

T4)

Hitzenberger, R. 1985

The behaviour of the atmospheric scattering coefficient under varying meteorological
conditions

GAeF Conference, Garmisch

Abstract in J. Aerosol Sci. 17 (1986), 303

T5)

Horvath, H., Hitzenberger, R., Rizzi, R. 1987

Daily Variations of aerosol size distributions over a town by an optical inversion

Int. Symp. Optical Particle Sizing: Theory and Practice, Rouen 1987

T6)

Hitzenberger, R., Horvath, H., Rizzi, R. 1987

Variations of aerosol size distributions obtained by non-linear inversions of optical spectral
extinction data

AAAR-meeting, Seattle, Wash. Sept. 1987

T7)

Hitzenberger, R. 1988

On the wavelength dependence of the extinction coefficient of the atmospheric aerosol at
different locations and under various meteorological conditions.

extended Abstract: J. Aerosol Sci. 19, 1231-1237

T8)

Hitzenberger, R., Horvath, H., Puxbaum, H. (1989)

Internal/external mixing of soot to aerosols in source and receptor regions in Austria
Conference on Background Aerosols, Galway, Eire, June 1989

T9)

Hitzenberger, R. (1989)

On the wavelength dependence of the extinction coefficient of the atmospheric aerosol as a function of location and meteorological conditions

APCA/AWMA Annual Meeting, Anaheim, California, June 1989

T10)

Hitzenberger, R., Horvath, H., Rizzi, R. (1989)

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

APCA/AWMA Annual Meeting, Anaheim, California, June 1989

T11)

Hitzenberger, R. (1989)

Absorption and mass absorption coefficients measured with the integrating plate method
European Aerosol Conference, Wien, Sept. 1989

extended Abstract: J. Aerosol Sci. 20, 1205-1208

T12)

Hitzenberger, R. (1990)

Calibration of integrating plate photometers - the removal of scattering losses
Third International Aerosol Conference, Kyoto, Japan

Abstract in: S. Masuda, K. Takahashi (eds) Aerosols, Science, Industry, Health
and Environment, Pergamon Press 1990, p. 647

T13)

Hitzenberger, R., Puxbaum, H., Kasper, A., Ellinger, R., Rendl, J. 1991

Measurements and calculation of the aerosol absorption coefficient; the influence of systematical errors and state of mixing

European Aerosol Conference, Sept. 1991, Karlsruhe

extended Abstract: J. Aerosol Sci. 22, S443-S446

T14)

Kasahara, M., Takahashi, K., Hitzenberger, R., Preining, O. 1992

Intercomparison of trace metal in atmospheric aerosols collected in Kyoto and Vienna.
European Aerosol Conference, Sept. 1992, Oxford

extended Abstract: J. Aerosol Sci. 23, S1003-S1006

T15)

Hitzenberger, R. (1992)

Absorption measurements of the urban aerosol of Vienna, Austria; calibration and error analysis.

AAAR Conference, Oct. 1992, San Francisco

T16)

Hitzenberger, R., Dusek, U., Berner, A. (1994)
Black carbon measurements using an integrating sphere
5th International Conference on Carbonaceous Particles, Aug 1994, Berkeley

T17)

Hitzenberger, R., Berner, A., Dusek, U. (1994)
Humidity controlled water uptake by deposited atmospheric aerosol samples
International Aerosol Conference, Aug/Sept. 1994, Los Angeles

T18)

Hitzenberger, R., Fohler-Norek, C., Dusek, U., Galambos, Z., Sidla, S. 1995
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.
Fifth International Conference on Highway and Urban Pollution, Kopenhagen, May 1995

T19)

Hitzenberger, R., Dusek, U., Berner, A. 1995
Measurements of hygroscopic mass increase of deposited aerosol samples - comparison to theory.
European Aerosol Conference, Helsinki, Sept. 1995

T20)

Hitzenberger, R., Giebl, H., Berner, A., Puxbaum, H., Kasper, A., Huffman, D. 1996
Cloud condensation nuclei (CCN) measurements at a remote continental station in Central Europe (Mt. Sonnblick observatory, Austria)
Fourteenth International Conference on Nucleation and Atmospheric Aerosols, Helsinki, Aug. 1996

extended Abstract: M. Kulmala, P. E. Wagner (eds) Nucleation and Atmospheric Aerosols 1996, Pergamon Press, UK, pp 836 - 839

T21)

Hitzenberger R., Giebl, H., Berner, A., Kromp, R., Puxbaum, H., Kasper, A., Huffman, D. 1996
Cloud condensation nuclei (CCN) measurements in the urban area of Vienna, Austria
European Aerosol Conference, Delft, Sept. 1996

extended Abstract: J. Aerosol Sci. 27, S95 - S 96

T22)

Hitzenberger, R., Fohler-Norek, C., Dusek, U., Galambos, Z., Sidla, S. 1996
Comparison of recent (1994/96) black carbon (BC) data with those obtained in 1985 and 1986 in the urban area of Vienna, Austria
European Aerosol Conference, Delft, Sept. 1996

extended Abstract: J. Aerosol Sci. 27, S51-S52

T23)

R. Hitzenberger, A. Berner, H. Giebl, R. Kromp, S. M. Larson, H. Puxbaum, A. Koch, S. Marischka 1997

Contribution of carbonaceous material to cloud condensation nuclei concentrations in European background (Mt. Sonnblick) and urban (Vienna) aerosols
Sixth International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 1997

T24)

R. Hitzenberger, S. G. Jennings, S. M. Larson, H. Cachier, Z. Galambos, T. G. Spain; 1997
Intercomparison of measurement methods for black carbon aerosols
Sixth International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 1997

T 25)

A. Khlystov, G. P. A. Kos, H. M. ten Brink, S. Sidla, Z. Galambos, C. Kruisz, R. Hitzenberger, A. Berner 1997
An indirect measurement of cloud activation properties of soot
Sixth International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 1997

T26)

R. Hitzenberger, A. Berner, H. Giebl, R. Kromp, A. Rouc, A. Koch, S. Marischka, H. Puxbaum 1998
Cloud condensation nuclei (CCN) and aerosol mass size distributions at an European Background and an urban site.
International Aerosol Conference Edinburgh, Sept. 1998

extended Abstract: J. Aerosol Sci. 29, S719-S720

T27)

R. Hitzenberger, S. G. Jennings, S. M. Larson, A. Dillner, H. Cachier, Z. Galambos, A. Rouc, T. G. Spain 1998
Method intercomparison for the determination of black carbon content on aerosols.
International Aerosol Conference Edinburgh, Sept. 1998

extended Abstract: J. Aerosol Sci. 29, S751-S752

T28)

R. Hitzenberger, R. Kromp, W. Tschewenka, H. Puxbaum 1998
Wet scavenging of black carbon and ionic species concentrations in Mt. Sonnblick could water.
International Aerosol Conference Edinburgh, Sept. 1998

extended Abstract: J. Aerosol Sci. 29, S521-S522

T29)

A. Khlystov, G. P. A. Kos, H. M. ten Brink, C. Kruisz, A. Berner, R. Hitzenberger 1998
An indirect measurement of cloud activation properties of ambient black carbon particles.
International Aerosol Conference Edinburgh, Sept. 1998

extended Abstract: J. Aerosol Sci. 29, S717-S718

T30)

A. M. Dillner, S. M. Larson, R. Hitzenberger, S. G. Jennings 1998
Comparison of elemental carbon mass in ambient samples measured by the thermal optical and integrating sphere methods.
AAAR Conference, Cincinnati, June 1998

T31)

R. Hitzenberger, A. Berner, H. Giebl, A. Kasper-Giebl, M. Loefflund Maria, H. Puxbaum 1999
Black carbon in cloud water at high- and mid-level mountain sites in Central Europe
International Global Atmospheric Chemistry Conference, Bologna, Sept. 1999

T32)

R. Hitzenberger, A. Berner, H. Giebl, H. Puxbaum, A. Kasper-Giebl, M. Loefflund 1999
Black carbon and ionic species concentrations in cloud water collected on two mountain sites in Europe
AAAR conference, Seattle, Oct. 1999

T33)

R. Hitzenberger, A. Berner, H. Giebl, W. Kromp, and G. Reischl, H. Puxbaum 1999
Cloud condensation nuclei (CCN) measured at high alpine sites in Austria (Central Europe)
AAAR Conference, Seattle, Oct. 1999

T34) Löflund, M., A. Kasper-Giebl, W. Tschewenka, M. Schmid, H. Giebl, G. Reischl, R. Hitzenberger and H. Puxbaum (2000) "The Characterisation of a Gas and Aerosol Monitoring System (GAMS) for the sampling and analysis of selected Organic and Inorganic Atmospheric Gases and Particulate Matter" Environmental Analytical Chemistry (ISEAC 30) Helsinki, June 13-16, 2000

T35)

R. Hitzenberger, H. Giebl, A. Berner, R. Kromp, G. Reischl, A. Kasper-Giebl, H. Puxbaum 2000
Measurements of CCN-concentrations in the European alpine aerosol using a newly developed static thermal diffusion counter
International conference on nucleation and atmospheric aerosol, Rolla, Aug. 2000

in: B. N. Hale, M. Kulmala (eds) Nucleation and atmospheric Aerosols 2000, American Institute of Physics, AIP conference proceedings, vol. 534, pp 861-864

T36)

R. Hitzenberger, S. Tohno 2000
Black carbon (BC) concentrations and size distributions at two urban sites (Uji, Japan and Vienna, Austria)
European Aerosol Conference, Dublin, Sept. 2000

extended abstract in: J. Aerosol Sci. 31, S112-S113

T37)

S. Tohno, R. Hitzenberger 2000
Comparison of ambient carbon particulate monitor and filter sampling for black carbon measurement.

European Aerosol Conference, Dublin, Sept. 2000

extended Abstract: J. Aerosol Sci. 31, S315-S316

T38)

R. Hitzenberger, A. Berner, H. Giebl, W. Kromp, G. Reischl, H. Puxbaum 2000

Cloud condensation nuclei (CCN) in Central Europe measured with the University of Vienna CCN counter.

European Aerosol Conference, Dublin, Sept. 2000

extended abstract: J. Aerosol Sci. 31, S68-S69

T39)

R. Hitzenberger, A. Berner, H. Giebl, K. Drobesh, A. Kasper-Giebl, M. Loefflund, H. Urban, H. Puxbaum 2000

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

Visibility Conference, Vienna, Sept. 2000

T40)

R. Höller, H. Fukumoto, T. Yabe, C. Asai, S. Tohno, R. Hitzenberger, M. Kasahara 2000

Optical, chemical, and humidification properties of the atmospheric aerosol at a background site on the pacific coast of Japan

Visibility Conference, Vienna, Sept. 2000

T41)

J. Ballach, E. Schultz, W. Jaeschke and R. Hitzenberger 2000

Development of an improved optical transmission technique for black carbon (BC) analysis
Carbonaceous Particles Conference, Puerto Rico, Nov. 2000

T42)

S. Tohno, R. Höller, R. Hitzenberger, M. Kasahara 2001

Characteristics of Carbonaceous Aerosols at Uji, Japan

The Association of East Asian Research Universities, Environmental Workshop, Hong Kong
Jan. 2001

T43)

Heidi Bauer, Heinrich Giebl, Anne Kasper-Giebl, Maria Löflund, Barbara Schuster, Franziska Zibuschka, Regina Hitzenberger, Georg Reischl, Hans Puxbaum: „Bacteria and fungi in Aerosols and Clouds“ 2nd Conference on Fog and Fog Collection, July 15-20, 2001, St. John's, New Foundland

T44)

Hitzenberger, R., Berner, A., Kasper-Giebl A., Kraxner, Y., Löflund, M., Puxbaum, H. (2001)
Surface tension of Mt. Rax cloud water and its relation to the concentration of inorganic and organic material.

IAMAS Conference, Innsbruck, July 10 - 18, 2001

T45)

Hitzenberger, R., Berner, A., Kasper-Giebl A., Kraxner, Y., Löflund, M., Puxbaum, H. (2001)

Surface tension of cloud water at a Central European mountain site and its relation to the chemical composition of cloud water.

European Aerosol Conference, Leipzig, Sept. 3 - 7, 2001

extended abstract: J. Aerosol Sci. 32, S1059 - S1060

T46)

Hitzenberger, R., Berner, A., Ctyroky, P., Drobisch, K., Futschek, T. (2001)

Humidity growth of deposited aerosol samples collected during the Melpitz Intercomparison campaign.

European Aerosol Conference, Leipzig, Sept. 3 - 7, 2001

extended abstract: J. Aerosol Sci. 32, S1025-S1026

T47)

Even, A., K. Müller, G. Spindler, T. Gnauk, J. Tursic, J.-P. Putaud, M. C. Fachhini, X. Chi, W. Maenhaut, R. Hitzenberger, A. Berner, H. Bauer, H. Puxbaum, H. M. ten Brink (2001)

Field intercomparison of measurements methods for carbonaceous aerosol in Melpitz.

European Aerosol Conference, Leipzig, Sept. 3 - 7, 2001

extended abstract: J. Aerosol Sci. 32, S1023-S1024

T48)

Tohno, S., Höller, R., Hitzenberger, R., Kasahara, M. (2001)

Characteristics of carbonaceous aerosols at Uji and other places in Japan.

2nd Asian aerosol conference, Pusan, Korea, July 1 – 4, 2001

T49)

Ballach, J., Schultz, E., Hitzenberger, R., Jaeschke, W., Kramer, H. (2001)
validation of the immersion technique in optical BC analysis by a thermal reference method

European Aerosol Conference, Leipzig, Sept. 3 - 7, 2001

extended abstract: J. Aerosol Sci. 32, S913 – S914

T50)

Müller, K., Spindler, G., Brüggemann, E., Gnauk, Th., Koziar, Ch., Schwarz, J., Cafmeyer, J., Maenhaut, W., Even, A., Kok, J., Berner, A., Ctyroky, P., Hitzenberger, R., Galambos, Z., Tursic, J., Mäkelä, T., Laitinen, A., Hillamo, R., Acker, K., Wieprecht, W., Streit, N. (2001)

The experiment „Intercomp 2000” in Melpitz – An Eurotrac-2 activity

European Aerosol Conference, Leipzig, Sept. 3 - 7, 2001

extended abstract: J. Aerosol Sci. 32, S1021 - S1022

T51)

A. Kasper-Giebl, B. Brantner, H. Fierlinger, C. Gröllert, M. Kalina, A. Koch, A. Limbeck, S. Paleczek, W. Tschewenka, W. Winiwarter, H. Puxbaum, A. Berner, H. Giebl, R.

Hitzenberger (2001)

Wolkenchemie am Hohen Sonnblick

Symposium zur Forschung im Nationalpark Hohe Tauern, Kaprun, Nov. 15 – 17, 2001

T52)

R. Hitzenberger, A. Berner (2002)

Measurement of the Water and Black Carbon Content of Atmospheric Aerosol Samples

Proceedings of EUROTRAC 2002 Meeting, Garmisch Partenkirchen

T53)

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

Organic Scavenging in High Mountain Clouds

Proceedings of EUROTRAC 2002 Meeting, Garmisch Partenkirchen

T54)

A. Even, K. Mueller, G. Spindler, T. Gnauk, J. Turstic, J.-P. Putaud, X. Chi⁵, W. Maenhaut, R. Hitzenberger, A. Berner, H. Bauer, H. Puxbaum, H. ten Brink (2002) Intercomp-2000:

Comparison of Measurement Methods for Carbonaceous Aerosol.

Proceedings of EUROTRAC 2002 Meeting, Garmisch Partenkirchen

T55)

M. Gysel, S. Nyeki, E. Weingartner, U. Baltensperger, H. Giebl, R. Hitzenberger, a. Petzold, C. W. Wilson (2002)

Influence of fuel sulfur content in the hygroscopic properties of jet engine combustion particles during PartEmis

International Aerosol Conference, Taipeh, Taiwan, Aug. 2002

T56)

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

Bacteria and fungal spores in tropospheric aerosols

Bioaerosols Workshop, Karlsruhe, 2002

T57)

Ctyroky, P., Giebl., H., Hitzenberger, R. *, Petzold, A., Bauer, H., Kasper-Giebl, A., Puxbaum, H., R. Ellinger, Laskus, L. (2003)

Intercomparison of several methods to measure black or elemental carbon under urban background conditions.

EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S955-S956

T58)

Hitzenberger, R., Giebl, H., Petzold, A., Gysel, M., Nyeki, S., Weingartner, E., Baltensperger, U., Wilson, C.W. (2003)
CCN activation of jet engine combustor particles during Partemis.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S1409-S1410

T59)

Nyeki, S., Gysel, M., Weingartner, E., Baltensperger, U., Hitzenberger, R., Petzold, A., Wilson, C.W. (2003)
Volatile properties of jet engine combustor particles during Partemis.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S1411-S1412

T60)

Gysel, M., Nyeki, S., Weingartner, E., Baltensperger, U., Giebl, H., Hitzenberger, R., Petzold, A., Wilson, C.W. (2003)
Jet engine combustion particle hygroscopicity under subsaturated conditions during Partemis.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S1415-S1416

T61)

Puxbaum, H., Vrchoticky, S., Petzold, A., Hitzenberger, R., Nyeki, S., Wilson, C.W. (2003)
Chemical composition of jet engine combustor particles during Partemis.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S1413-S1414

T62)

Petzold, A., Wilson, C.W., Baltensperger, U., Fiebig, M., Fritzsche, L., Giebl, H., Gysel, M., Hitzenberger, R., Hurley, C.D., Nyeki, S., Puxbaum, H., Stein, C., Vrchoticky, S. (2003)
Particle emission from aircraft engines – an overview of the European Project Partemis.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S1405-S1405

T63)

Tursic, J., Podkrajsek, B., Ctyroky, P., Grgic, I., Berner, A., Hitzenberger, R. (2003)
Size segregated chemical composition of marine aerosol particles.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S765-S766

T64)

Ten Brink, H., A. Even, K. Müller, G. Spindler, T. Gnauck, X. Chi, W. Maenhaut, R. Hitzenberger, A. Berner, H. Bauer, H. Puxbaum, J. Tursic, J.P. Putaud (2003)

Comparability of methods in use in Europe for measuring the carbon content in aerosol.
EAC, Madrid, Sept. 2003

J. Aerosol Sci. Supplement, S545-S546

T65)

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

CCN activation of jet engine combustor particles during Partemis.

Conference on Aviation, Atmosphere and Climate, Friedrichshafen, July 2003

T66)

A. Petzold*, M. Fiebig, L. Fritzsche, C. Stein, U. Schumann, C.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
(2003) Particle emissions from aircraft engines - An overview of the European project
PartEmis.

Proceedings, Conference on Aviation, Atmosphere and Climate, Friedrichshafen, July 2003

T67)

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

Jet Engine Combustion Particle Hygroscopicity under Subsaturated Conditions During
PARTEMIS

Poster, Conference on aviation, atmosphere and climate, Friedrichshafen, July 2003

T68)

Hitzenberger, R. (2004)

Water soluble aerosols.

ICNAA 2004, Kyoto, July 2004

T69)

Tusic, J., Podkrajsek, B., Grgic, I., Berner, A., Ctyroky, P., Hitzenberger, R. (2004)

Reactivity of atmospheric aerosols under conditions typical for haze.

EAC 2004, Budapest, Sept. 2004

T70)

Dusek, U., Giebl, H., Reischl, G. P., Hitzenberger, R. (2004) CCN activation of pure and
coated carbon black particles.

EAC 2004, Budapest, Sept. 2004

T71)

Dusek, U., Giebl, H., Reischl, G. P., Hitzenberger, R. (2004) Aspects on the calibration of
CCN counters

EAC 2004, Budapest, Sept. 2004

T72)

* *Corresponding author:* Andreas Petzold, DLR Institute of Atmospheric Physics, Oberpfaffenhofen, 82234
Wessling, Germany. Email: andreas.petzold@dlr.de

M. Gysel, S. Nyeki, E. Weingartner, U. Baltensperger, H. Giebl, R. Hitzenberger, A. Petzold (2004). Effect of Sulphuric Acid on Hygroscopic Growth and CCN Activity of Jet Engine Combustion Particles.

Workshop on Sulphuric Acid Aerosols, Cambridge, March 31 to April 1, 2004

T73)

R. Hitzenberger, G. Iorga, H. Puxbaum, A. Kasper-Giebl (2004) Modelling the direct radiative effect of aerosols collected at Vienna and Mt. Rax.

8th International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 2004.

T74)

J. Tursic, B. Podkrajsek, I. Grgic, P. Ctyroky, A. Berner, R. Hitzenberger (2004) Particle size distributions of carbon in aerosols collected in Vienna and Ljubljana.

8th International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 2004.

T75)

U. Dusek, P. Ctyroky, H. Giebl, G.P. Reischl, and R. Hitzenberger (2004)

CCN activation of carbon black particles coated with humic acid.

8th International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Sept. 2004.

T76)

J. Turšič, B. Podkrajšek, I. Grgić, P. Ctyroky, A. Berner and R. Hitzenberger (2005)

Comparison of chemical composition and hygroscopic properties of size segregated particles collected in Vienna and Ljubljana. EAC 2005, Gent

T77)

R. Hitzenberger, G. Iorga, H. Puxbaum and A. Kasper-Giebl (2005)

Direct radiative effect modeled for regional aerosol in Central Europe.

EAC 2005, Gent

T78)

Hitzenberger R., Berner A., Ctyroky P., Tursic J., Podkrajšek B., Grgic I. (2005)

Humidity growth of size selected atmospheric aerosol samples at two urban and a maritime location in Europe.

ACCENT Symposium, Urbino, Sept. 2005

T79)

A. Petzold., R. Hitzenberger, H. Puxbaum, M. Gysel, U. Baltensperger, and X. Vancassel

Competing effects of hydrocarbon compounds and sulphur species on the CCN activation of combustion aerosol particles - Results from the PartEmis Experiment

AAAR 2005

T80)

A. Berner, R. Hitzenberger, H. Hauck (2006) Monthly and Annual Averages of Diurnal Pattern of PM_(10-2.5) at Urban and Rural Sites in Austria

International Conference COST 633 Particulate Matter and Health, Vienna, April 2006

T81)

A. Berner, A. Frank, R. Hitzenberger (2006)

On regional correlation of atmospheric PM signals

International Conference COST 633 Particulate Matter and Health, Vienna, April 2006

T82)

H. Bauer, G. Weinke, E. Schüller, A. Berger, A. Kasper-Giebl, R. Hitzenberger, H. Puxbaum (2006)

Contribution of fungal spores to organic carbon in urban and urban-fringe aerosols.

International Aerosol Conference, St. Paul, USA, Sept. 2006

T83) R. Hitzenberger, P. Reisinger, A. Petzold, H. Bauer, H. Puxbaum, W. Maenhaut (2006)

Method intercomparison study of techniques to measure black or elemental carbon under urban background conditions in wintertime.

Visibility Conference, Vienna, Sept. 2006

T84)

R. Hitzenberger (2007)

COST Action 633: Particulate Matter: properties related to health effects.

Invited contribution, CONCAWE Workshop, Brussels, Jan. 2007

T85)

A. Berner, J. Tursic, R. Hitzenberger (2007)

Formation of sulphate in concentrated solutions of salt

Public Conference: Particles and Health – State of the Research and Policy Implications

T86)

R. Hitzenberger, J. Tursic, J.-P. Putaud, A. Berner, R. Salonen, W. Kreyling, T.A.J.

Kuhlbusch, M. Amann, F. R. Cassee, W. Winiwarter and COST633-Members (2007)

Cross-disciplinary approaches for air quality issues.

European Aerosol Conference, Salzburg, 2007

T87)

J.P. Putaud¹, A. Alastuey², H. ten Brink³, R. Hitzenberger⁴, A. Jones⁵, Anne Kasper-Giebl⁶, A. Kousa⁷, A. Molnar⁸, T. Moreno², F. Palmgren⁹, C. Petaloti¹⁰, I. Salma¹¹, J. Tursic¹², and Mar Viana Rodriguez² (2007) Differences and Similarities in PM Characteristics across Europe: Results of the COST633 Data Compilation Activity

European Aerosol Conference, Salzburg, 2007

T88)

R. Hitzenberger^{1*}, P. Reisinger¹, A. Wonaschuetz¹, A. Petzold², H. Bauer³, N. Jankowski³, H. Puxbaum³, X. Chi⁴, W. Maenhaut⁴

Intercomparison of measurement techniques for black or elemental carbon under urban background conditions in wintertime

European Aerosol Conference, Salzburg, 2007

T89)

R. Hitzenberger^{1*}, P. Reisinger¹, A. Wonaschuetz¹, A. Petzold², H. Bauer³, N. Jankowski³, H. Puxbaum³, X. Chi⁴, W. Maenhaut (2007)

Intercomparison of measurement techniques for black or elemental carbon under urban background conditions in wintertime

Conference on Emission Monitoring CEM, Zürich, Sept. 2007

T90)

J. Burkart, G. Steiner, G. P. Reischl, R. Hitzenberger (2008)
CCN measurements at an urban location – concentrations and activation diameters
European Aerosol Conference, Thessaloniki, 2008

T91)

Hitzenberger, R., Wonaschütz, A., Bauer, H., Pouresmaeil, P., Klatzer, B., Caseiro, A.,
Puxbaum, H. (2008)
Measurements of black and brown carbon in atmospheric aerosols with the integrating sphere
method.
9th International Conference on Carbonaceous Particles in the Atmosphere, Berkeley, 2008

T92)

Hitzenberger R. et al (2008)
Measurement of Black and Brown Carbon in the Urban Aerosol.
Workshop on Organics in the Atmosphere with Focus on Low Volatile OC and Particles -
Sources, Chemistry and Impacts. TU Wien, October 6-8, 2008
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., Wählén 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, Vienna, April 19 – 24, 2009

T95)

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

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, 2009

T97)

D. Niedermeier¹, S. Hartmann¹, R. Shaw^{1,2}, D. Covert³, Th. F. Mentel⁴, L. Poulain¹, P. Reitz^{5,6}, J. Schmale⁵, J. Schneider⁵, C. Spindler⁴, T. Clauss¹, A. Kiselev¹, E. Hallbauer¹, H. Wex¹, K. Mildenerberger¹, J. Burkart⁷, R. Hitzenberger⁷ and F. Stratmann¹ (2009)

Freezing and Activation Measurements of Coated and Uncoated Arizona Test Dust Particles - Results of the Measurement Campaign FROST
ICNAA 2009, Prague

T98)

David Neubauer¹, Aron Vrtala¹, Hans Puxbaum², Anne Kasper-Giebl², Regina Hitzenberger¹ (2009)

Modeling The Indirect Aerosol Effect Of Background Aerosol In Austria.
ICNAA 2009, Prague

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, Prague

T100)

D. Neubauer¹, A. Vrtala¹, H. Puxbaum², R. Hitzenberger¹ (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. Burkart¹, H. Moshhammer², M. Neuberger², G. Steiner¹, G. Reischl¹ and R. Hitzenberger¹ (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 Preset 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. Eggli, M. G. Firneis, R. Hitzenberger (2010)

The Life Supporting Zone I – From Classic to Exotic Life

European Planetary Science Congress, Rome, Sept. 2010

T110)

D. Neubauer, A. Vrtala, R. Hitzenberger

Life supporting zone: Computation of width and location

European Planetary Science Congress, Rome, Sept. 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, Vienna, May 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, Russia, Sept. 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, Russia, Sept. 2010

T114)

J. Burkart, R. Hitzenberger, G. Reischl, G. Steiner, H. Bauer, K. Leder, M. Rzaça, 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

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

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 14C analysis.
ICCPA 2011, Vienna

T120)
M.Rzaça, 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

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, July 2011

T122)
J. Burkart, R. Hitzenberger, G. Reischl, G. Steiner, H. Bauer, K. Leder, M. Rzaça 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, Austria,

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, May, 2012

T129)

J. Burkart, R. Hitzenberger, G. Reischl, H. Bauer, K. Leder, H. Puxbaum (2012)

Activation diameters, hygroscopicity parameters (κ) and chemical composition of „synthetic ambient“ aerosols < 100nm.

International Cloud and Precipitation Physics conference, Leipzig, 28 July to 3 Aug. 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, Sept. 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, Sept. 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, Prague, Oct. 25.- 26, 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)

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

5th Symposium for Research in Protected Areas, Mittersill, June 10-12, 2013

T135)

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, Sept. 2013

T136)

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, Sept. 2013

T137)

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, Sept. 2013

T138)

N. Ziková, T. Borsós², 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, Sept. 2013

T139)

C. Linke, I. Ibrahim, R. Hitzenberger and M. Schnaiter 2013
Carbonaceous aerosols and variations in their light absorbing properties
European Aerosol Conference, Prague, Sept. 2013

T140)

A. Wonaschütz, J. Burkart, R. Haindl, J. Palmethofer, G. Reischl, G. Steiner, R. Wagner, R. Hitzenberger 2013
New particle formation in an urban atmosphere: seasonal dependence and influence of air mass origin
32nd Annual Conference, American Association for Aerosol Research, Sept. 2013

T141)

J. Burkart, G. Reischl, G. Steiner, H. Bauer[†], 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

T142)

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 143)

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, Oct. 28. – 30, 2013

T 144)

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

T145)

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

T146)

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

T147)

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

T148)

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

T149)

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

T150)

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

T151)

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

T152)

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

T153)

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

T154)

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

T155)

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**

T156)

W. Ludwig, S. Eggl, D. Neubauer, J. Leitner, M.G. Firneis, R. Hitzemberger (2014)
Radiative Convective Transfer Calculations for Effective Stellar Fluxes of Habitable and Life
Supporting Zones
EGU April 2014, Vienna

T157)
A. Wonaschütz, J. Burkart, R. Wagner, C. Dameto de Espana, G. Reischl, G. Steiner, R.
Hitzemberger (2014)
New particle formation events as a source for cloud condensation nuclei in an urban
environment
EGU April 2014, Vienna

T158)
R.-S. Taubner, J.J. Leitner, M.G. Firneis, R. Hitzemberger (2014)
Estimations on the Interior of small icy bodies in the Solar System
EGU April 2014, Vienna

T 159)
J. Ofner, A. Kasper-Giebl, M. Kistler, J. Matzl, G. Schauer, R. Hitzemberger, J. Lohninger, B.
Lendl (2014)
Raman microscopy of size-segregated aerosol particles, collected at the Sonnblick
Observatory in Austria
EGU April 2014, Vienna

T160)
U. Dusek, R. Holzinger, H.J.A Meijer, A. Kasper-Giebel, R. Hitzemberger, T. Röckmann
(2014)
Sources of carbonaceous aerosol in the Netherlands: the importance of long-range transport
International Aerosol Conference August 2014, Busan, Korea

T161)
A. Wonaschütz, J. Burkart, R. Wagner, C. Dameto de Espana, G. Reischl, G. Steiner, R.
Hitzemberger (2014)
On the importance of new particle formation events as a source for cloud condensation nuclei
in an urban environment
AAAR conference, Oct. 2014, Orlando, USA

T162)
R. Hitzemberger, 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, USA

T163)
R.-S. Taubner, J.J. Leitner, M.G. Firneis, R. Hitzemberger (2014)
Including Cassini's Gravity Measurements from the Flybys E9, E12, E19 into Interior
Structure Models of Enceladus
European Planetary Science Congress, Cascais, Portugal, Sept. 2014,

T164)

J. J. Leitner, R.-S. Taubner, M. G. Firneis, R. Hitzemberger (2014)
Using “The Big Bang Theory’s” World in Young High-Potentials Education
European Planetary Science Congress , Cascais, Portugal, Sept. 2014,

T165)

G. Schauer, A. Kasper-Giebl, R. Hitzemberger, 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, Steamboat Springs,
CO, USA., Aug. 2014,

T166)

G. Schauer, J.M. Carmona, A. Kasper-Giebl, R. Hitzemberger (2014)
Applied machine learning methods for pattern analysis and re-identification of ambient air
measurements
Symposium on Atmospheric Chemistry and Physics at Mountain Sites, Steamboat Springs,
CO, USA., Aug. 2014,

T 167)

J. Leitner, R.-S. Taubner, M. Firneis and R. Hitzemberger (2014)
From “The Big Bang Theory” to Young High-Potentials Education in Physics
64. annual meeting Austrian Physical Society (ÖPG) 2014, Pöllau, Austria

T 168)

R.-S. Taubner, J. Leitner, M. Firneis and R. Hitzemberger (2014)
Including new Cassini’s Gravity Measurements into Interior Structure Models of Enceladus
64. annual meeting Austrian Physical Society (ÖPG) 2014, Pöllau, Austria

T169)

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, Vienna, April 2015

T170)

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, Vienna, April 2015

T171)

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, Vienna, April 2015

T172)

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

T173)

A. Wonaschuetz, P. Kallinger, W. Szymanski, R. Hitzenberger (2015)
Chemical composition of radiolytically formed particles using mass spectrometry
European Aerosol Conference, Milan, Sept. 2015

T174)

J. Ofner, M. Kistler, J. Matzl, E. C. Cetintas, E. Schreiner, G. Schauer, R. Hitzenberger, 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

T175)

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, Tokyo, June 2015

Books

C. Kruisz, R. Hitzberger 2006
Physik verstehen. Facultas /UTB

2nd edition 2011