List of References 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 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. Tscherwenka, 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. Drobesch, 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 2000: 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. Hauck, O. Preining, H. Puxbaum (2004)

On the Correlation of Atmospheric Aersosol Components of Mass Size Distributions 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 PartEmis experiment. Particle size spectra (d>15nm) 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 PartEmis.

Meteorol. Z. 14, 465-476

52)

A. Petzold, M. Gysel, X. Vancassel, R. Hitzenberger, H. Puxbaum, S. Vrochticky, 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)

Viana, M., Kuhlbusch, T. A. J., Querol. X., Alastuey, A., Harrison, R. M., Hopke, P.K., Winiwarter, W., Vallius, M., Szidat, S., Prevot, A. S. H., Hueglin, C., Bloemen, H., Wahlin, P., Vecchi, R., Miranda A. I., Kasper-Giebl. A., Maenhaut, W., Hitzenberger, R. (2008)

Source apportionment of PM in Europe: a meta-analysis of methods and results.

J. Aerosol Sci. 39, 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. Cyrys, H. Flentje, S. Fuzzi, R. Gehrig, H.C. Hansson, R.M. Harrison1, 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. Moshammer, 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. Rimnacova, V. Zdímal, 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. Gongriep, 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)

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

2015

76)

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

77)

Wonaschütz, A., Dematio, A., Wagner, R., Burkart, J., Zíková, N., Vodicka 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

78)

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

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

79)

P. Panteliadis, T. Hafkenscheid, B. Cary, E. Diapouli, A. Fischer, O. Favez, P. Quincey, M. Viana, R. Hitzenberger, R. Vecchi, D. Saraga, J. Sciare, J. L. Jaffrezo, A. John, J. Schwarz, M. Giannoni, J. Novak, A. Karanasiou, P. Fermo, and W. Maenhaut (2015)

ECOC comparison exercise with identical thermal protocols after temperature offset correction – instrument diagnostics by in-depth evaluation of operational parameters

Atmos. Meas. Tech. Discuss., 7, 8697–8742, 2014

Atmos. Meas. Tech., 8, 779–792

2016

80)

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

doi:10.1007/s11084-015-9475-9

81)

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

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

Aerosol Sci. Technol. 50, 284 – 296

DOI:10.1080/02786826.2016.1146819

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

83)

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

Atmos. Meas. Tech., 9, 5331–5346, 2016

2017

84)

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. Discuss., doi:10.5194/acp-2016-624, 2016

Atmos. Chem. Phys., 17, 3233-3251, 2017

85)

Jianzhong Sun1,2, Guorui Zhi2\*, Yingjun Chen1,4\*, Chongguo Tian1, Regina. Hitzenberger3, Yayun Zhang2,6, Mei Zheng5, Yanli Feng7, Miaomiao Cheng2, Yuzhe Zhang2,6, Feng Chen7, Yiqin Qiu7, Zhiming Jiang7, Jun Li8,Gan Zhang8, Yangzhi Mo8 (2017)

Application of Integrating Sphere Method to Measure the Emission Factors of Brown Carbon from Residential Coal Combustion in China

Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-1090, 2017

Jianzhong Sun, Guorui Zhi, Regina Hitzenberger, Yingjun Chen, Chongguo Tian, Yayun Zhang, Yanli Feng, Miaomiao Cheng, Yuzhe Zhang, Jing Cai, Feng Chen, Yiqin Qiu, Zhiming Jiang, Jun Li, Gan Zhang, and Yangzhi Mo (2017)

Emission factors and light absorption properties of brown carbon from household coal combustion in China

Atmos. Chem. Phys. 17, 7, 4769-4780

doi: 10.5194/acp-17-4769-2017

86)

T. Häusler, L. Witek, L. Felgitsch, R. Hitzenberger and H. Grothe (2017)

Heterogeneous freezing of super cooled water droplets in micrometre range- freezing on a chip

Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2017-31, 2017

87)

C. Dameto de España, A. Wonaschütz, G. Steiner, B. Rosati, A. Demattio, H. Schuh, R. Hitzenberger (2017)

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

Atmos. Environ. 164, 289-298

88)

A. Wonaschuetz, P. Kallinger, W. Szymanski, R. Hitzenberger (2017)

Chemical composition of radiolytically formed particles using mass spectrometry

J. Aerosol Sci. 113, 242-249

2018

89)

Thomas Häusler, Lorenz Witek, Laura Felgitsch, Regina Hitzenberger and Hinrich Grothe (2018)

Freezing on a chip– a new approach to determine heterogeneous ice nucleation of micrometer-sized water droplets

Atmosphere 2018, 9, 140; doi:10.3390/atmos9040140

2019

90)

Anna Wonaschütz, Theresa Haller, Eva Sommer, Lorenz Witek, Hinrich Grothe, Regina Hitzenberger (2019)

Collection of soot particles into aqueous suspension using a Particle-Into-Liquid Sampler

Aerosol Sci. Technol. 53, 21-28

<https://doi.org/10.1080/02786826.2018.1540859>

91)

Laura Felgitsch, Magdalena Bichler, Julia Burkart, Thomas Häusler, Regina Hitzenberger, and Hinrich Grothe\* (2019)

Juices and Extracts from Berries from selected perennial Plants trigger heterogeneous Freezing of Water

Atmosphere 10, 37 - 59; https://doi.org/10.3390/atmos10010037

92)

Theresa Haller, Christian Rentenberger, Jannik Meyer, Laura Felgitsch, Hinrich Grothe, Regina Hitzenberger (2019)

Structural changes of CAST soot during a thermo-optical measurement protocol

Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2019-10>

Theresa Haller, Christian Rentenberger, Jannik C. Meyer, Laura Felgitsch, Hinrich Grothe, Regina Hitzenberger(2019)

Structural changes of CAST soot during a thermal–optical measurement protocol

Atmos. Meas. Tech., 12, 3503–3519, 2019https://doi.org/10.5194/amt-12-3503-2019

93)

Carmen Dameto de España, Gerhard Steiner, Harald Schuh, Constantinos Sioutas, Regina

Hitzenberger (2019)

Versatile Aerosol Concentration Enrichment System (VACES) operating as a Cloud Condensation Nuclei (CCN) concentrator. Development and laboratory characterization.

Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2019-75, 2019

Atmos. Meas. Tech., 12, 4733–4744, 2019

2021

94)

H. ten Brink, R. Hitzenberger (2021)

Smoke Shade as a historic proxy for Elemental Carbon

Air Quality, Atmosphere and Health 14, 637-642 <https://doi.org/10.1007/s11869-020-00967-8>

95)

H.M. ten Brink, R. Hitzenberger, M. Keuken (2021)

On the equivalency of Black Smoke / British Smoke and historic Elemental Carbon

Atmos. Environ. 244, <https://doi.org/10.1016/j.atmosenv.2020.117857>

96)

Jianzhong Sun, Yuzhe Zhang, Guorui Zhi, Regina Hitzenberger, Wenjing Jin, Yingjun Chen, Lei Wang, Chongguo Tian, Zhengying Li, Rong Chen, Wen Xiao, Yuan Cheng, Wei Yang, Liying Yao, Yang Cao, Duo Huang, Yueyuan Qiu, Jiali Xu, Xiaofei Xia, Xin Yang, Xi Zhang, Zheng Zong, Yuchun Song, and Changdong Wu (2021)

Brown carbon’s emission factors and optical characteristics in household biomass burning: developing a novel algorithm for estimating the contribution of brown carbon

Atmos. Chem. Phys., 21, 2329–2341, 2021

https://doi.org/10.5194/acp-21-2329-2021

97)

Theresa Haller, Eva Sommer, Thomas Steinkogler, Christian Rentenberger, Anna Wonaschuetz,

Anne Kasper-Giebl, Hinrich Grothe, Regina Hitzenberger (2021)

Investigation of structural changes of atmospheric aerosol samples during

two thermal-optical measurement procedures (EUSAAR2, NIOSH870)

Atmos. Meas. Tech., 14, 3721–3735, 2021

https://doi.org/10.5194/amt-14-3721-2021

98)

Harry ten Brink, Regina Hitzenberger (2021)

On the non-linear relation of the Coefficient of Haze and Elemental Carbon

Journal of the Air and Waste Management Association 71, 1407-1414

2022

99)

Carmen Dameto de España, Anna Wonaschuetz, Gerhard Steiner, Harald Schuh, Constantinos Sioutas, Regina Hitzenberger (2022)

On-line determination of the chemical composition of single activated cloud condensation nuclei – a pilot study.

Aerosol Science and Technology, 56:8, 673-687

DOI: 10.1080/02786826.2022.2069545

100)

H.M. ten Brink, R. Hitzenberger, A. Virkkula (2022)

Black Smoke as proxy for the content of Elemental Carbon of historic glass filter samples

Atmospheric Environment,

https://doi.org/10.1016/j.atmosenv.2022.119177

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 atmosperic 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, September 1989, Wien

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, Wien, 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, Wien, 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, Wien, 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, UK, September 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, UK, September 1998

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

T28)

R. Hitzenberger, R. Kromp, W. Tscherwenka, H. Puxbaum 1998

Wet scavenging of black carbon and ionic species concentrations in Mt. Sonnblick could water.

International Aerosol Conference Edinburgh, UK, September 1998

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

T29)

A. Khylstov, 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, UK, September 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, Cinncinnati, June 1998

T31)

R. Hitzenberger, A. Berner, H. Giebl, A. Kasper-Giebl, M. Loeflund 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. 99

T32)

R. Hitzenberger, A. Berner, H. Giebl, H. Puxbaum, A. Kasper-Giebl, M. Loeflund 1999

Black carbon and ionic species concentrations in cloud water collected on two mountain sites in Europe

AAAR conference, Seattle, Okt. 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, Okt. 1999

T34) Löflund, M., A. Kasper-Giebl, W. Tscherwenka, 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) 13-16 June, Helsinki

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. Drobesch, A. Kasper-Giebl, M. Loeflund, H. Urban, H. Puxbaum 2000

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

Visibility Conference, Sept. 2000, Wien

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, Sept. 2000, Wien

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 January 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., Drobesch, 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. Gnauck, 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

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. Tscherwenka, 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 emasuring 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)

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, J. Tursic, B. Podkrajsek I. Grgic, 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 (2005)

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 sulphyte 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. Hitzenberger1\*, P. Reisinger1, A. Wonaschuetz1, A. Petzold2, H. Bauer3, N. Jankowski3, H. Puxbaum3, X. Chi4, W. Maenhaut4 (2007)

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

European Aerosol Conference, Salzburg, 2007

T89)

R. Hitzenberger1\*, 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, September 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., Wåhlin 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. Mildenberger, 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. Mildenberger, 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. Niedermeier1, S. Hartmann1, R. Shaw1, 2, D. Covert3, Th. F. Mentel4, L. Poulain1, P. Reitz5, 6, J. Schmale5, J. Schneider5, C. Spindler4, T. Clauss1, A. Kiselev1, E. Hallbauer1, H. Wex1, K. Mildenberger1, 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, Prag

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, 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. 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. Moshammer2, 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.

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.

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 14C 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 (κ) 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

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

T136)

J. Schwarz, N. Zíková , P. Vodicka, I. Sevcikova, J. Kugler, A. Wonaschuetz, R. Wagner, I. Aschauer, W. Ludwig, R. Haindl, G. Zecha, R. Hitzenberger and V. Zdímal 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. Ondrácek, P. Vodicka, N. Zíková, V. Zdímal, 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. Sevcikova, P. Vodicka, N. Zíková , and V. Zdímal 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. Borsós2, D. Rimnacova, J. Smolík, Z. Wagner, T. Weidinger, J. Burkart, G. Steiner, G. Reischl, R. Hitzenberger, J. Schwarz, I. Salma and V. Zdímal 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

32nd Annual Conference, American Association for Aerosol Research, September 2013

T142)

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

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 interdiscplinary 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. Vodicka, Z. Wágner, N. Ziková , V. Zdímal (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. Wonaschüt

tz, 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, G. Wotawa, G. Mocnik (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, Aust

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., Hitzenberger 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., Hitzenberger 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. Hitzenberger (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. Hitzenberger, 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. Hitzenberger (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. Hitzenberger (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. Hitzenberger (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. 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, 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)

A. Kasper-Giebl, G. Schauer, G. Mocnik, M. Kistler, J. Ofner, H. Lohninger, R. Hitzenberger, A. Wonaschütz, U. Nickus, L. Beck (2015)

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

 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

T185)

M. Orzan, I. Brodacz, L. Witek, H. Schuh, P.M Winkler, R. Hitzenberger, G. Steiner (2016)

Optimizing the particle counting efficiency of the Grimm 5.412 CPC for airborne sub 4 nm particles and clusters

European Aerosol Conference, Tours, September 2016

T186)

I. Brodacz, M. Orzan, L. Witek, H. Schuh, R. Hitzenberger, G. Steiner (2016)

Generation of monomobile mobility standards with three aerosol neutralizers

European Aerosol Conference, Tours, September 2016

T187)

L. Witek, T. Haller, A. Wonaschuetz, G. Steiner, H. Schuh, H. Grothe, R. Hitzenberger (2016)

Collection of CAST soot particles with a Particle into Liquid Sampler (PILS)

European Aerosol Conference, Tours, September 2016

T188)

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

On the use of the field Sunset semi-continuous analyzer to measure equivalent black carbon concentrations.

European Aerosol Conference, Tours, September 2016

T189)

H. Grothe, T. Zolles, J. Burkart, T. Häusler, B. Pummer, R. Hitzenberger (2016)

Identification of Ice nucleation active sites in feldspar dust particles

International Conference on Atmospheric Dust, Castellaneta Marina, June 2016

T190)

B. Rosati, Z.Németh, N. Zíková, C. Dameto de Espana, G.Steiner, V. Zdimal, J.Schwarz,

T. Weidinger, I. Salma, R. Hitzenberger, A. Wonaschütz (2016)

New Particle Formation in Urban Atmospheres: Comparison between Vienna, Prague and Budapest and Influence of Air Mass Origin

Annual Meeting Austrian Physical Society (OePG), September 2016, Vienna, Austria

T191)

Anna Wonaschütz, Wolfgang Ludwig, Maria Zawadowicz, Naruki Hiranuma, Regina Hitzenberger, Daniel Cziczo, Paul DeMott and Ottmar Möhler (2017)

Comparison of mineral dust and droplet residuals measured with two

single particle aerosol mass spectrometers

EGU General Assembly, Vienna, Austria, April 2017

T192)

Thomas Häusler, Lorenz Witek, Laura Felgitsch, Regina Hitzenberger, and Hinrich Grothe (2017)

Heterogeneous freezing of super cooled water droplets in micrometre range- freezing on a chip

EGU General Assembly, Vienna, Austria, April 2017

T193)

Thomas Häusler, Lorenz Witek, Laura Felgitsch, Regina Hitzenberger, and Hinrich Grothe (2017)

The Ice Nucleation Activity of Surface Modified Soot

EGU General Assembly, Vienna, Austria, April 2017

T194)

Carmen Dameto de Espana, Anna Wonaschütz, G. Steiner, B. Rosati, A. Demattio, J. Burkart, R. Wagner, H. Schuh, R. Hitzenberger (2017)

Long-term study of urban new particle formation (NPF) events and their impact on cloud condensation nuclei (CCN)

ICNAA conference, Helsinki, Finland, Sept. 2017

T 195)

T.Haller, C.Rentenberger, J.C.Meyer, H.Grothe and R.Hitzenberger (2017)

Multi-method analysis of structural changes of black and brown carbon during a thermal-optical measurement procedure

EAC 2017, Zürich

T 196)

Beck, L., Nickus, U., Wonaschütz, A., Kasper-Giebl, A., Hitzenberger, R., Schauer, G., Ries, L. (2017)

New particle formation events at Sonnblick and Zugspitze

Virtual Alpine Observatories Symposium, Bolzano, Italy

T 197)

Naděžda Zíková, Petr Vodička, Wolfgang Ludwig, Regina Hitzenberger, Jaroslav Schwarz (2017)

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

AAAR conference, October 2017, Raleigh, USA

T 198)

Németh Zoltán, Bernadette Rosati, Naděžda Zíková, Imre Salma, László Bozó, Regina Hitzenberger, Jaroslav Schwarz, Vladimír Ždímal, Anna Wonaschütz (2017)

A légköri nukleáció jelentösége közép-európai városi környezetekben

Hungarian Aerosol Conference, Pecs, April 2017

T 199)

Theresa Haller, Christian Rentenberger, Jannik C. Meyer, Hinrich Grothe, Regina Hitzenberger (2018)

Structural changes of a combustion aerosol standard (CAST) soot during a thermal-optical measurement procedure

EGU Vienna, April 2018

T 200)

Versatile aerosol concentration enrichment factor system (VACES) operating as a Cloud Condensation Nuclei concentrator - Development and laboratory characterization

C. Dameto de Espana1, G. Steiner 1,2, H. Schuh1, C. Sioutas3 and R. Hitzenberger1

EGU Vienna, April 2018

T 201)

Koda, H., Fujii, Y., Tohno, S., Nozomi, S., Yuta, K., Kameda, T., Hitzenberger, R., Haller, T., Kazuhiro, I., Nobumitsu, S., Azura, S. N., Latif, M. T. & Takeshi, O. (2018)

Comprehensive Assessment of Carbonaceous PM2.5 in Malaysia during Haze Events

Influenced by Indonesia Peatland Fire and Non-Haze Period

IAC 2018, St. Louis, USA

T 202)

C. Dameto de España, A. Wonaschuetz ,G. Steiner, H. Schuh, C. Sioutas and R. Hitzenberger (2018)

Modification of the Versatile aerosol concentration enrichment factor system (VACES) for Cloud Condensation Nuclei concentrator purposes.

IAC 2018, St. Louis, USA

T 203)

Carmen Dameto de España, Anna Wonaschütz and Regina Hitzenberger (2018)

Single Particle Mass Spectrometry of Solid and Liquid Test Aerosols

Aerosol Technology, AT2018, June 18-20, 2018, Bilbao, Spain.

T 204)

Y. Fujii, S. Tohno, R. Hitzenberger, T. Haller et al (2018)

Comparison of BC and EC concentrations in PM2.5 collected during a 1-year sampling campaign in Kuala Lumpur, Malaysia

Annual Meeting, Japanese Association of Aerosol Science and Technology (JAAST) Nagoya, Japan, July 31 – Aug 2

T205)

Grothe, H., Häusler, T., Haselmann, G., Haller, T., Eder, D. & Hitzenberger, R. (2019) The ice nucleation activity of black and brown soot aged by exposure to N02 and S02

12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA) Apr. 3 – Apr. 6, 2019, Vienna, Austria

T206)

Sommer, E., Wonaschütz, A., Haller, T., Kasper, J. & Hitzenberger, R. (2019)

Long term of black and brown carbon concentrations in the urban aerosol of Vienna

12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA) Apr. 3 – Apr. 6, 2019, Vienna, Austria

T207)

Worradorn, P., Samae, H., Tekasakul, S., Tekasakul, P., Hata, M., Furuuchi, M., Hitzenberger, R. & Wonaschütz, A. (2019)

Emission factor of PM 0.1 related to light absorption carbon from biomass combustion in Thailand

12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA) Apr. 3 – Apr. 6, 2019, Vienna, Austria

T208)

Wonaschütz, A., Haller, T., Sommer, E., Witek, L., Grothe, H. & Hitzenberger, R. (2019)

Collection of black carbon in a particle-into-liquid sampler.

12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA) Apr. 3 – Apr. 6, 2019, Vienna, Austria

T209)

Haller, T., Sommer, E., Grothe, H. & Hitzenberger, R. (2019)

Differences and analogies of structural changes of CAST soot and atmospheric aerosol samples during thermal-optical analyses.

12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA) Apr. 3 – Apr. 6, 2019, Vienna, Austria

T210)

Sommer, E., Haller, T., Kasper, J. & Hitzenberger, R. (2019)

Past and Present Trends of Black and Brown Carbon concentrations in the Vienna urban aerosol

EGU General Assembly 2019, April 7 – April 12, Vienna, Austria

T210)

Haller, T., Sommer, E., Grothe, H. & Hitzenberger, R. (2019)

Structural changes of CAST soot and atmospheric aerosol samples during two thermal-optical analysis protocols (EUSAAR2, NIOSH870)

EGU General Assembly 2019, April 7 – April 12, Vienna, Austria

T211)

C. Dameto de España, G. Steiner, H. Schuh, C. Sioutas, and R. Hitzenberger (2019)

Versatile aerosol concentration enrichment factor system (VACES) operating as a

Cloud Condensation Nuclei concentrator. Development and laboratory characterization

European Aerosol Conference Gothenburg, Aug. 2019

Books and Book Chapters (recent years)

H. Kromp-Kolb, N. Nakicenovic, K. Steininger, A. Gobiet, H. Formayer, A. Köppl, F. Prettenthaler, J. Stötter, J. Schneider (eds); B. Ahrens, I. Auer, A. Baumgarten, B. Bednar-Friedl, J. Eitzinger, U. Foelsche, H. Formayer, C. Geitner, T. Glade, A. Gobiet, G. Grabherr, R. Haas, H. Haberl, L. Haimberger, R. Hitzenberger, M. König, M. Lexer, W. Loibl, R. Molitor, H. Moshammer, H.-P. Nachtnebel, F. Prettenthaler, W. Rabitsch, K. Radunsky, H. Schnitzer, W. Schöner, N. Schulz, P. Seibert, S. Stagl, R. Steiger, J. Stötter, W. Streicher,

W. Winiwarter (ccordinating lead authors) (2014)

Austrian Assessment Report 2014, Austrian Panel on Climate Change

Verlag der Österreichischen Akademie der Wissenschaften

C. Kruisz, R. Hitzenberger 2006

Physik verstehen. Facultas /UTB

2nd edition 2011

Scientific reports (recent years)

H. Puxbaum, W. Winiwarter, Editors (2011)

Advances of Atmospheric Aerosol Research in Austria

Compendium prepared by the Clean Air Commission of the Austrian Academy of Sciences

(chapters on Aerosol Instrumentation, Black and Brown Carbon, Time Series Analysis)

U. Baltensperger, C. George\*, I. Grgic, M Hallquist, H. Herrmann, R. Hitzenberger, M. Jenkin, U. Kirso, Z. Klos, K. Lehtinen, M. Millan, O. J. Nielsen, C. J. Nielsen, Y. Rudich, H. M. ten Brink, L. Vereecken, J. Wenger, Z. Zelinger (2009)

Final Report, Interdisciplinary Tropospheric Research: From the Laboratory to Global Change (INTROP), European Science Foundation

R. Hitzenberger, J. Tursic (eds.) (2009)

Final Report, COST 633 Particulate Matter – Properties Related to air Pollution

R. Hitzenberger, C. Fohler-Norek (1996)

Schwarzer Kohlenstoff in der Wiener Luft. Messungen, Ursachen, Konsequenzen.

Bericht der Wiener Umweltanwaltschaft

Stowe, L. L., Hitzenberger, R., Deepak, A. (eds.) (1990)

Report of the Experts Meeting on Space Observations of Tropospheric Aerosols and Complementary Measurements

WCRP-48, WMO/TD-No. 389 World Meteorological Society

Hitzenberger, R. (1988)

Extinction and absorption measurements with the University of Vienna Telephotometer and an integrating plate photometer.

Report on the Southern California Air Quality Study (SCAQS) to the California Air Ressources Board

Invited Talks at Conferences, Workshops, Research Institutions

E1) Hitzenberger, R. 1986

Atmospheric aerosols: properties and measurement instrumentation.

Workshop on a Physical Climatology for Solar and Wind Energy; International Centre for Theoretical Physics, Triest, April 1986

in: R. Guzzi, C. G. Justus (eds) (1988) Physical Climatology for Solar

 and Wind Energy. World Scientific Pub. Corp. Singapore, 1988

E2) Hitzenberger, R. 1986

Present knowledge of atmospheric transparency in the visible: the effect of aerosols

International meeting on atmospheric transparency for satellite applications, Capri, 15.-19. Sept. 1986

In: G. V. Silvestrini (ed): Atmospheric Transparency for Satellite Applications,

 C.U.E.N. Napoli, Italia 1987

E3) Statistical analysis of a two-year measurement series of aerosol

 absorption coefficients in Vienna

 Mai 1987, Universita di Studi di Bologna, Bologna, Italien

E4) Aerosol absorption measurements in Vienna - Techniques and results

 Juli 1987, University of California, Davis, California

E5) Inversions of aerosol size distributions from optical extinction

 measurements

 August 1987, University of Minnesota, Minneapolis, Minnesota

E6) Inversions of aerosol size distributions from optical extinction

 measurements

 August 1987, Southern Research Institute, Birmingham, Alabama

E7) Inversions of aerosol size distributions from optical extinction

 measurements

 August 1987, Georgia Institute of Technology, Atlanta, Georgia

E8) Dynamik von Aerosolgrößenverteilungen - Inversion von optischen Daten.

 Mai 1988, Goethe Universität, Frankfurt, BRD

E9) Aerosol extinction and absorption measurements during the Southern

 California Air Quality Study 1987

 Juli 1988, Universita di Studi, Bologna, Italien

E10) Atmospheric Aerosols

 Februar 1989, University of Kyoto, Dept. Environmental and Sanitary

 Engineering, Japan

E11) Measurements of optical properties of atmospheric aerosols

 Februar 1989, University of Osaka Prefecture, Japan

E12) Optical properties of atmospheric aerosols

 Februar 1989, University of Kyoto, Institute of Atomic Energy, Japan

E13) Optical properties of atmospheric aerosols

 Juni 1989, Université des Sciences et Technique, Lille, Frankreich

E14) Hitzenberger, R., Horvath, H., Puxbaum, H. (1989)

On the state of admixture of carbon to atmospheric aerosols

Workshop on Arctic Haze, European Aerosol Conference, September 1989, Wien

in J. Aerosol Sci., 1990

E15) R. Hitzenberger (1990)

Immissionstechniken für die Bestimmung von Black Carbon

Tutorial on Aerosol Immission, European Aerosol Conference, Zürich

E16) Wolkenkondensationskerne

 Jänner 1994, TU Wien, Inst. f. analyt. Chemie

E17) Feuchtewachstum von Aerosolen im Hinblick auf Haze- und Wolkenbildung

 Sept. 1994, Kernforschungszentrum Karlsruhe, im Rahmen des Berufungsverfahrens für eine C4-Professur

E18) Aktivierung von Aerosolpartikeln als Wolkenkondensationskerne

 Jänner 1997, TU Wien, Institut für analytische Chemie

E19) CCN-Messungen am Sonnblick

 Juni 1997, Universität Bern, Schweiz

E20) CCN-fähige Aerosole

 ALPTRAC Symposium, Mai 1998, Wien

E21) Rußbestimmung mit einem Ulbricht Kugel Photometer

 Seminar Rupp, Mai 1998, Wien

E22) Aerosols and Climate.

 Kyoto University, Juli 1998, Kyoto, Japan

E23) Humidity growth of aerosols.

 Meteorological Research Institute, Juli 1998, Tsukuba, Japan

E24) Measurement of the water content and black carbon content of atmospheric aerosol samples. EUROTRAC-II AEROSOL Workshop, Mainz, März 1999

E25) Rax – Wolkenkondensationskerne für niedrige Wolken. TU Wien, Seminar für Umweltanalytik, Nov. 1998

E26) CCN measurements - instrumentation and requirements

PARTEMIS Kick-off-meeting, DERA, UK, April 2000

E27) Wolkenbildung. VHS Meidling / VHS Liesing, Herbst 2000

E28) Aerosol - Wolkendynamik. Physik 2000, Experimentalphysik, Jänner 2001

E29) Klimarelevanz von Rußaerosolen. TU Wien, Seminar für Umweltanalytik, März 2001

E30) Aerosole und Klima, Seminar Institut für Isotopenforschung und Kernphysik, Universität

 Wien, April 2002

E31) Black carbon in the Atmosphere. Young Chemists Conference, Kopenhagen Juni 2002

E32) Einflüsse mikrophysikalischer Parameter auf die Wolkenbildung. Atmosphärenseminar, TU Wien, 3. Dez 2002

E33) Cloud Condensation Nuclei (CCN). The influence of their microphysical and chemical properties on cloud droplet formation. National Institute of Chemistry, Ljubljana, 8. April 2003

E34) Wolken, Menschen, Klima. Fortbildungswoche für AHS Lehrer, Wien, 23. 2. 2004

E35) Wolkenkondensationskerne und Wolkentröpfchen. Forschungszentrum Karlsruhe, 2. 3. 2004

E36) Water soluble aerosols, International Conference on Nucleation and Atmospheric

 Aerosols ICNAA, Kyoto, Japan, July 2004

E37) Aspekte der CCN Aktivierung von Flugzeugaerosolen, Forschungszentrum Jülich, 7. 4. 2005

E38) Wolkenkondensationskern (CCN) Aktivierung von verschiedenen Laboraerosolen. Institut für Troposphärenforschung, Leipzig, 24. 5. 2007

E39) Cloud Condensation Nuclei at Background and urban sites in Vienna

 Institute for Meteorology and Geophysics, University of Vienna, 11. 5. 2010

E 40)

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

E 41)

Measurements of Black, Elemental and Brown Carbon in atmospheric aerosols

8. 11. 2012, University of Copenhagen

E 42) Elemental, Black And Brown Carbon

Concentrations And Trends in Austria

Vortrag Geozentrum, 19. 11. 12

E 43)

Feinstaub und Gesundheit, Fortbildungswoche

E44)

Physik Matinee

E 45)

Vortrag bei Grothe

Summer school Kopenhagen

Summer School Vehkämeki

andere Publikationen

S1)

Hitzenberger R. 1988

Atmospheric aerosols and their importance

(Atmosferdeki Havasitilar ve Cevre)

Fizik Muehendisligi Cilt:3, Sayi:33, 1988

Miscellaneous

Radioreihe “vom Leben der Natur” (19.- 23. 11. 2001), Wiederholung Oktober 2003. ORF, Radioprogramm Ö1