

List of Publications Regina Hitzenberger (geb. Pirich)

PhD Thesis

Pirich, R. 1982

Über den Zusammenhang zwischen den optischen Eigenschaften und der Massengrößenverteilung des atmosphärischen Aerosols und seine Beeinflussung durch meteorologische Parameter

Universität Wien, Juni 1982

Publications in peer-reviewed journals

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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

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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

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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

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

Variability of rural aerosols under stable weather conditions.

J. Rech. Atmos. 19, 159-164

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Hitzenberger, R. 1985

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

Atmos. Environ. 19, 835 - 838

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Hitzenberger, R., Rizzi, R. 1986

Retrieved and measured aerosol mass size distributions: a comparison

Appl. Opt. 25, 546-553

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Wetter und Leben 38, 150-157

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Hitzenberger, R. 1986

The behaviour of the atmospheric scattering coefficient under varying meteorological conditions

Theoret. Appl. Climatol. 37, 175-183

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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

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R. Hitzenberger 1993

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Aerosol Sci. Technol. 18, 70-84

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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

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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

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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

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

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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

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R. Hitzenberger, S. G. Jennings, S. M. Larson, A. Dillner, H. Cachier, Z. Galambos, T. G. Spain 1999
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Atmos. Environ. 33, 2823-2833

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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

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R. Hitzenberger, A. Berner, R. Kromp, A. Kasper-Giebl, A. Limbeck, W. Tschewenka, H. Puxbaum 2000
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J. Geophys. Res. 105, D20, 24637-24646

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Atmos. Environ. 35, 2153-2167

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Results of the "carbon conference" international aerosol carbon round robin test stage I
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A Gas and Aerosol Monitoring System (GAMS) for the Determination of Organic and Inorganic Atmospheric Gases and Particulate Matter
Atmos. Environ. 35, 2861-2869

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A. M. Dillner, C. Stein, S. M. Larson, R. Hitzenberger 2001
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K. Okada, R. Hitzenberger 2001
Mixing properties of individual submicrometer aerosol particles in Vienna
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R. Hitzenberger, A. Berner, H. Giebl, K. Drobesh, A. Kasper-Giebl, M. Loeflund, H. Urban, H. Puxbaum (2001)
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IAMAS Conference, Montreal, June 19 – 29

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, 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. 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 Present Times,
Paper presented at the 4th European Planetology Science Congress, September 14-18, 2009,
held in Potsdam, Germany; Abstracts of the European Planetary Science Congress, 2009,
Abstract No. EPSC2009-554.

(VORTRAG)

T107)

Firneis, M. G., Hitzenberger R., and Leitner J. J. (2009) Exotic Life Markers in Potential
Planetary System Habitats

Paper presented at the General Assembly to the Austria Society for Astronomy and
Astrophysics, September 2-4, 2009, held in Innsbruck, Austria; Abstracts of the General
Assembly to the Austria Society for Astronomy and Astrophysics, p. 153.

(POSTER)

T108)

J. J. Leitner, R. Schwarz, M. G. Firneis, R. Hitzenberger, D. Neubauer (2010)

Generalizing habitable zones in exoplanetary systems – the concept of the life supporting
zone.

Astrobiology Science Conference, Houston, April 2010

T109)

J. J. Leitner, D. Neubauer, R. Schwarz, S. Ettl, 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,
Puschschino, 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. Vodička, I. Ševčíková, J. Kugler, A. Wonaschuetz, R. Wagner, I.
Aschauer, W. Ludwig, R. Haindl, G. Zecha, R. Hitzenberger and V. Ždímal 2013
Comparison of mass size distribution of PM and ions in Prague and Vienna in winter and
summer
European Aerosol Conference, Prague, September 2013

T137)

A. Wonaschuetz, R. Wagner, I. Aschauer, R. Haindl, W. Ludwig, G. Zecha, J. Ondráček, P.
Vodička, N. Zíková, V. Ždímal, J. Schwarz, R. Hitzenberger 2013
Ultrafine particle concentrations: importance of local sources and new particle formation in
two central European cities
European Aerosol Conference, Prague, September 2013

T138)

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

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

European Aerosol Conference, Prague, September 2013

T139)

N. Ziková, T. Borsós², D. Řimnáčová, J. Smolík, Z. Wagner, T. Weidinger, J. Burkart, G. Steiner, G. Reischl, R. Hitzenberger, J. Schwarz, I. Salma and V. Ždímal 2013

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

European Aerosol Conference, Prague, September 2013

T140)

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

Carbonaceous aerosols and variations in their light absorbing properties

European Aerosol Conference, Prague, September 2013

T141)

A. Wonaschütz, J. Burkart, R. Haindl, J. 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, 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 interdisciplinary starting point to natural sciences for high-potential children'
European Planetary Science Congress 2013 (EPSC), London

T151)

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

T152)

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

T153)

Taubner, R-S, Leitner, J, Pollack, S, Firneis, MG & Hitzenberger, R 2013
'On the internal structure of Enceladus'
63. annual meeting Austrian Physical Society (ÖPG) 2013, Linz, Austria

T154)

Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013
'The inner structure of Enceladus – Physical conditions at the bottom of its potential subsurface water reservoir'
European Planetary Science Congress 2013 (EPSC), London

T155)

Pollack, S, Taubner, R-S, Leitner, J, Firneis, MG & Hitzenberger, R 2013
'The inner structure of Jupiter's Moon Europa – Estimations on the physical conditions at the sea floor of its potential subsurface ocean'

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

T156)

Turse, C, Khan, A, Leitner, J, Firneis, MG, Hitzenberger, R & Schulze-Makuch, D 2013
'The origin of amino acids under impact conditions on early Titan'
European Astrobiology Network Association Meeting (EANA), Szczecin, Poland

T157)

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

T158)

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

T159)

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

T 160)

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

T161)

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

T162)

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

T163)

R. Hitzenberger, J. Schwarz, I. Aschauer, R. Haindl, W. Ludwig, R. Wagner, A. Wonaschuetz, G. Zecha, P. Vodička, Z. Wágner, N. Ziková, V. Ždímal (2014)
Black and elemental carbon in two European urban areas – temporal trends, site and seasonal similarities and differences
AAAR conference, October 2014, Orlando

T164)

R.-S. Taubner, J.J. Leitner, M.G. Firneis, R. Hitzenberger (2014)
Including Cassini's Gravity Measurements from the Flybys E9, E12, E19 into Interior
Structure Models of Enceladus
European Planetary Science Congress 7. – 12. Sept 2014, Cascais, Portugal

T165)

J. J. Leitner, R.-S. Taubner, M. G. Firneis, R. Hitzenberger (2014)
Using "The Big Bang Theory's" World in Young High-Potentials Education
European Planetary Science Congress 7. – 12. Sept 2014, Cascais, Portugal

T166)

G. Schauer, A. Kasper-Giebl, R. Hitzenberger, A. Wonaschütz, G. Wotawa, G. Močnik
(2014)
Identification of long-range transport of particulate matter at Sonnblick Observatory
Symposium on Atmospheric Chemistry and Physics at Mountain Sites, August 11-15,
Steamboat Springs, CO, USA.

T167)

G. Schauer, J.M. Carmona, A. Kasper-Giebl, R. Hitzenberger (2014)
Applied machine learning methods for pattern analysis and re-identification of ambient air
measurements
Symposium on Atmospheric Chemistry and Physics at Mountain Sites, August 11-15,
Steamboat Springs, CO, USA.

T 168)

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

T 169)

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

T 170)

Taubner R.-S., Rittmann S. K.-M. R., Leitner J. J., Schleper C., Firneis M. G., 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)

Remote and still alert-eyed – aerosol research at the Sonnblick Observatory (2015)
A. Kasper-Giebl, G. Schauer, G. Mocnik, M. Kistler, J. Ofner, H. Lohninger, R. Hitzenberger, A. Wonaschütz, U. Nickus, L. Beck
Virtual Alpine Observatory Symposium, Salzburg, Oct. 2015

T 180)

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

T181)

T.Haller, T.Häusler, L. Witek, H.Grothe, R.Hitzenberger (2016)
Structural changes of combustion aerosol samples during a thermal-optical measurement protocol
European Aerosol Conference, Tours, September 2016

T182)

C. Dameto de España, A. Wonaschuetz, G. Steiner, A. Demattio, R. Hitzenberger (2016)
Long-term study of New Particle Formation (NPF) events as a source of Cloud Condensation Nuclei (CCN) concentrations in the urban background of Vienna
European Aerosol Conference, Tours, September 2016

T183)

O. Möhler, N. Hiranuma, D. J. Cziczo, P. J. DeMott, R. Ullrich, C. Hoose, R. Wagner, T. Schiebel, K. Höhler, H. Saathoff, C. Mohr, A. Ahern, R. Sullivan, H. Al-Mashat, K. Prather, D. Bell, J. Wilson, A. Zelenyuk, N. Marsden, H. Coe, F. Marth, B. Sierau, S. Schmitt, J. Schneider, A. Wonaschütz, R. Hitzenberger, M. A. Zawadowicz (2016)
Suppression of the feldspar ice nucleation activity by thin coating layers of secondary organics and sulphuric acid
International Conference on Clouds and Precipitation, Manchester, July 2016

T184)

R. Hitzenberger, B. Weinzierl, A. Wonaschuetz, W.W. Szymanski (2016)
Characterization of optical properties of atmospheric aerosols
International Symposium on Trans-boundary Pollution and Integrated Research Studies, Kanazawa, Japan, 7. – 9. March 2016

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. Ziková, 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, Castellana Marina, June 2016

T190)

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

T191)

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

Heterogeneous freezing of super cooled water droplets in micrometre range- freezing on a chip (2017)

EGU General Assembly, Vienna, Austria, April 2017

T192)

The Ice Nucleation Activity of Surface Modified Soot (2017)

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

EGU General Assembly, Vienna, Austria, April 2017

Books and Book Chapters (recent years)

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