

PUBLICATION LIST*Armin Wisthaler***ARTICLES IN PEER-REVIEWED JOURNALS**

* first author, equal first author or senior author publication

2014

- 91* M. Müller, T. Mikoviny, S. Feil, S. Haidacher, G. Hanel, E. Hartungen, A. Jordan, L. Märk, P. Mutschlechner, R. Schottkowsky, P. Sulzer, J. H. Crawford, and **A. Wisthaler**: A compact PTR-ToF-MS instrument for airborne measurements of VOCs at high spatio-temporal resolution, *Atmos. Meas. Tech. Discuss.* 7, 5533-5558, doi:10.5194/amtd-7-5533-2014 (2014).
- 90 M. M. Maguta, M. Aursnes, A. J. C. Bunikan, K. Edelen, T. Mikoviny, C. J. Nielsen, Y. Stenstrøm, Y. Tang, and **A. Wisthaler**, Atmospheric Fate of Nitramines: An Experimental and Theoretical Study of the OH Reactions with CH_3NHNO_2 and $(\text{CH}_3)_2\text{NNO}_2$, *J. Phys. Chem. A* 118 (19), 3450–3462, doi: 10.1021/jp500305w (2014)
- 89 J. Liu, E. Scheuer, J. Dibb, L. D. Ziemba, K. L. Thornhill, B. E. Anderson, **A. Wisthaler**, T. Mikoviny, J. J. Devi, M. Bergin, R. J. Weber, Brown Carbon in the Continental Free Troposphere, *Geophys. Res. Lett.* 41(6), 2191-2195, doi: 10.1002/2013GL058976 (2014)
- 88* M. Müller, T. Mikoviny, **A. Wisthaler**, Detector aging induced mass discrimination and non-linearity effects in PTR-ToF-MS. *Int. J. Mass Spectrom.* 365–366, 93–97 doi:10.1016/j.ijms.2013.12.008 (2014)

2013

- 87 F. Ciesa, J. Dalla Via, **A. Wisthaler**, A. Zanella, W. Guerra, T. Mikoviny, T. D. Märk, M. Oberhuber, Discrimination of four different postharvest treatments of ‘Red Delicious’ apples based on their volatile organic compound (VOC) emissions during shelf-life measured by proton transfer reaction mass spectrometry (PTR-MS), *Postharvest Biol. Technol.* 86, 329–336, doi:10.1016/j.postharvbio.2013.06.036 (2013)
- 86* M. Müller, T. Mikoviny, W. Jud, B. D’Anna, **A. Wisthaler**, A New Software Tool for the Analysis of High Resolution PTR-TOF Mass Spectra, *Chemom. Int. Lab. Syst.* 127, 158–165, doi: 10.1016/j.chemolab.2013.06.011 (2013)
- 85 H. Bian, P. R. Colarco, M. Chin, G. Chen, J. M. Rodriguez, Q. Liang, D. Blake, D. A. Chu, A. da Silva, A. S. Darmenov, G. Diskin, H. E. Fuelberg, G. Huey, Y. Kondo, J. E. Nielsen, X. Pan, and **A. Wisthaler**, Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign, *Atmos. Chem. Phys.* 13, 4707-4721, doi:10.5194/acp-13-4707-2013 (2013)
- 84 I. Kohl, J. Beauchamp, F. Cakar-Beck, J. Herbig, J. Dunkl, O. Tietje, M. Tiefenthaler, C. Bösmüller, **A. Wisthaler**, M. Breitenlechner, S. Langebner, A. Zabernigg, F. Reinstaller, K. Winkler, R. Gutmann, and A. Hansel, First observation of a potential non-invasive breath gas biomarker for kidney function, *J. Breath Res.* 7, 017110 (2013)
- 83 E. C. Browne, K.-E. Min, P. J. Wooldridge, E. Apel, D. R. Blake, W. H. Brune, C. A. Cantrell, M. J. Cubison, G. S. Diskin, J. L. Jimenez, A. J. Weinheimer, P. O. Wennberg, **A. Wisthaler**, and R. C. Cohen, Observations of total RONO_2 over the Boreal Forest: NO_x sinks

and HNO₃ sources, *Atmos. Chem. Phys.* 13, 4543-4562, doi:10.5194/acp-13-4543-2013, (2013)

2012

- 82 L. K. Sahu, Y. Kondo, N. Moteki, N. Takegawa, Y. Zhao, M. J. Cubison, J. L. Jimenez, S. Vay, G. S. Diskin, **A. Wisthaler**, T. Mikoviny, L. G. Huey, A. J. Weinheimer, and D. J. Knapp, Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008, *J. Geophys. Res.* 117, D16302, doi:10.1029/2011JD017401 (2012)
- 81 C. A. Corr, S. R. Hall, K. Ullmann, B. E. Anderson, A. J. Beyersdorf, K. L. Thornhill, M. J. Cubison, J. L. Jimenez, **A. Wisthaler**, and J. E. Dibb, Spectral absorption of biomass burning aerosol determined from retrieved single scattering albedo during ARCTAS, *Atmos. Chem. Phys.* 12, 10505-10518, doi:10.5194/acp-12-10505-2012 (2012)
- 80 J. R. Olson, J. H. Crawford, W. Brune, J. Mao, X. Ren, A. Fried, B. Anderson, E. Apel, M. Beaver, D. Blake, G. Chen, J. Crouse, J. Dibb, G. Diskin, S. R. Hall, L. G. Huey, D. Knapp, D. Richter, D. Riemer, J. St. Clair, K. Ullmann, J. Walega, P. Weibring, A. Weinheimer, P. Wennberg, and **A. Wisthaler**, An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE, *Atmos. Chem. Phys.* 12, 6799-6825, doi:10.5194/acp-12-6799-2012 (2012)
- 79 H. B. Singh, C. Cai, A. Kaduwela, A. Weinheimer, **A. Wisthaler**, Interactions of fire emissions and urban pollution over California: Ozone formation and air quality simulations, *Atmos. Environ.* 56, 45-51, doi: 10.1016/j.atmosenv.2012.03.046 (2012)
- 78 M. Huang, G. R. Carmichael, S. Kulkarni, D. G. Streets, Z. F. Lu, Q. Zhang, R. B. Pierce, Y. Kondo, J. L. Jimenez, M. J. Cubison, B. Anderson, **A. Wisthaler**, Sectoral and geographical contributions to summertime continental United States (CONUS) black carbon spatial distributions, *Atmos. Environ.* 51, 165-174, doi: 10.1016/j.atmosenv.2012.01.0219 (2012)
- 77 M. Karl, C. Dye, N. Schmidbauer, **A. Wisthaler**, T. Mikoviny, B. D'Anna, M. Müller, E. Borrás, E. Clemente, A. Muñoz, R. Porras, M. Ródenas, M. Vázquez, and Th. Brauers, Study of OH-initiated degradation of 2-aminoethanol, *Atmos. Chem. Phys.* 12, 1881-1901 (2012)
- 76 E. C. Apel, J. R. Olson, J. H. Crawford, R. S. Hornbrook, A. J. Hills, C. A. Cantrell, L. K. Emmons, D. J. Knapp, S. Hall, R. L. Mauldin III, A. J. Weinheimer, A. Fried, D. R. Blake, J. D. Crouse, J. M. St. Clair, P. O. Wennberg, G. S. Diskin, H. E. Fuelberg, **A. Wisthaler**, T. Mikoviny, W. Brune, and D. D. Riemer, Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere, *Atmos. Chem. Phys.* 12, 1135-1150 (2012)
- 75 M. Müller, M. Graus, **A. Wisthaler**, A. Hansel, A. Metzger, J. Dommen, and U. Baltensperger, Analysis of high mass resolution PTR-TOF mass spectra from 1,3,5-trimethylbenzene (TMB) environmental chamber experiments, *Atmos. Chem. Phys.* 12, 829-843 (2012)

2011

- 74 Q. Liang, J. M. Rodriguez, A. R. Douglass, J. H. Crawford, J. R. Olson, E. Apel, H. Bian, D. R. Blake, W. Brune, M. Chin, P. R. Colarco, A. da Silva, G. S. Diskin, B. N. Duncan, L. G. Huey, D. J. Knapp, D. D. Montzka, J. E. Nielsen, S. Pawson, D. D. Riemer, A. J. Weinheimer, and **A. Wisthaler**, Reactive nitrogen, ozone and ozone production in the Arctic troposphere and the impact of stratosphere-troposphere exchange *Atmos. Chem. Phys.* 11, 13181-13199, doi:10.5194/acp-11-13181-2011 (2011)

- 73 M. J. Cubison, A. M. Ortega, P. L. Hayes, D. K. Farmer, D. Day, M. J. Lechner, W. H. Brune, E. Apel, G. S. Diskin, J. A. Fisher, H. E. Fuelberg, A. Hecobian, D. J. Knapp, T. Mikoviny, D. Riemer, G. W. Sachse, W. Sessions, R. J. Weber, A. J. Weinheimer, **A. Wisthaler**, and J. L. Jimenez, Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies, *Atmos. Chem. Phys.* 11, 12049-12064 (2011)
- 72 A. Hecobian, Z. Liu, C. J. Hennigan, L. G. Huey, J. L. Jimenez, M. J. Cubison, S. Vay, G. S. Diskin, G. W. Sachse, **A. Wisthaler**, T. Mikoviny, A. J. Weinheimer, J. Liao, D. J. Knapp, P. O. Wennberg, A. Kürten, J. D. Crouse, J. St. Clair, Y. Wang, and R. J. Weber, Comparison of the Chemical and Physical Evolution and Characteristics of 495 Biomass Burning Plumes Intercepted by the NASA DC-8 Aircraft during the ARCTAS/CARB-2008 Field Campaign, *Atmos. Chem. Phys.* 11, 13325-13337 (2011)
- 71 H. Matsui, Y. Kondo, N. Moteki, N. Takegawa, L. K. Sahu, M. Koike, Y. Zhao, H. E. Fuelberg, W. R. Sessions, G. Diskin, B. E. Anderson, D. R. Blake, **A. Wisthaler**, M. J. Cubison, J. L. Jimenez, Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent, *J. Geophys. Res.* 116, D20217, 10.1029/2011JD016189 (2011)
- 70 R. S. Hornbrook, D. R. Blake, G. S. Diskin, A. Fried, H. E. Fuelberg, S. Meinardi, T. Mikoviny, D. Richter, G. W. Sachse, S. A. Vay, J. Walega, P. Weibring, A. J. Weinheimer, C. Wiedinmyer, **A. Wisthaler**, A. Hills, D. D. Riemer, and E. C. Apel, Observations of volatile organic compounds during ARCTAS – Part 1: Biomass burning emissions and plume enhancements, *Atmos. Chem. Phys.* 11, 11103-11130 (2011)
- 69 G. G. Pfister, J. Avise, C. Wiedinmyer, D. P. Edwards, L. K. Emmons, G. D. Diskin, J. Podolske, and **A. Wisthaler**, CO Source Contribution Analysis for California during ARCTAS-CARB, *Atmos. Chem. Phys.* 11, 7561-7582 (2011)
- 68 I. J. Simpson, S. K. Akagi, B. Barletta, N. J. Blake, Y. Choi, G. S. Diskin, A. Fried, H. E. Fuelberg, S. Meinardi, F. S. Rowland, S. A. Vay, A. J. Weinheimer, P. O. Wennberg, P. Weibring, **A. Wisthaler**, M. Yang, R. J. Yokelson, and D. R. Blake, Boreal forest fire emissions in fresh Canadian smoke plumes: C₁–C₁₀ volatile organic compounds (VOCs), CO₂, CO, NO₂, NO, HCN and CH₃CN, *Atmos. Chem. Phys.* 11, 6445-6463 (2011)
- 67 Y. Kondo, H. Matsui, N. Moteki, L. Sahu, N. Takegawa, M. Kajino, Y. Zhao, M. J. Cubison, J. L. Jimenez, S. Vay, G. S. Diskin, B. Anderson, **A. Wisthaler**, T. Mikoviny, H. Fuelberg, D. R. Blake, G. Huey, A. J. Weinheimer, D. J. Knapp, W. H. Brune, Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008, *J. Geophys. Res.* 116, D08204, 10.1029/2010JD015152 (2011)
- 66 S. Vay, Y. Choi, K. Vadrevu, D. Blake, S. Tyler, **A. Wisthaler**, A. Hecobian, Y. Kondo, G. Diskin, G. Sachse, J.-H. Woo, A. J. Weinheimer, E. Olsen, A. Stohl, J. Burkhardt, P. Wennberg, Patterns of CO₂ and Radiocarbon across High Northern Latitudes during IPY 2008, *J. Geophys. Res.* 116, D14301, 10.1029/2011JD015643 (2011)
- 65 C. J. Nielsen, B. D'Anna, C. Dye, M. Graus, M. Karl, S. King, M. M. Maguto, M. Müller, N. Schmidbauer, Y. Stenstrøm, **A. Wisthaler**, S. Pedersen, Atmospheric chemistry of 2-aminoethanol (MEA), *Energy Procedia* 4, 2245-2252 (2011)
- 64 H. Matsui, Y. Kondo, N. Moteki, N. Takegawa, L. K. Sahu, Y. Zhao, H. E. Fuelberg, W. R. Sessions, G. Diskin, D. R. Blake, **A. Wisthaler**, M. Koike, Seasonal variation of the transport of black carbon aerosol from the Asian continent to the Arctic during the ARCTAS aircraft campaign, *J. Geophys. Res.* 116, D05202, doi:10.1029/2010JD015067 (2011)
- 63 C. S. Mc Naughton, A. D. Clarke, S. Freitag, V. N. Kapustin, Y. Kondo, N. Moteki, L. Sahu, N. Takegawa, J. P. Schwarz, J. R. Spackman, L. Watts, G. Diskin, J. Podolske, J. S. Holloway, **A. Wisthaler**, T. Mikoviny, J. de Gouw, C. Warneke, J. Jimenez, M. Cubison, S. G. Howell, A. Middlebrook, R. Bahreini, B. E. Anderson, E. Winstead, K. L. Thornhill, D. Lack, J. Cozic,

- and C. A. Brock, Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns, *Atmos. Chem. Phys.* 11, 7561-7582 (2011)
- 62 E. C. Browne, A. E. Perring, P. J. Wooldridge, E. Apel, S. R. Hall, L. G. Huey, J. Mao, K. M. Spencer, J. M. St. Clair, A. J. Weinheimer, **A. Wisthaler**, and R. C. Cohen, Global and regional effects of the photochemistry of $\text{CH}_3\text{O}_2\text{NO}_2$: evidence from ARCTAS, *Atmos. Chem. Phys.* 11, 4209-4219, doi: 10.5194/acp-11-4209-2011 (2011)
- 61 G. G. Pfister, D. Parrish, H. Worden, L. K. Emmons, D. P. Edwards, C. Wiedinmyer, G. S. Diskin, G. Huey, S. J. Oltmans, V. Thouret, A. Weinheimer, and **A. Wisthaler**, Characterizing summertime chemical boundary conditions for air masses entering the US West Coast, *Atmos. Chem. Phys.* 11, 1769-1790, doi: 10.5194/acp-11-1769-2011 (2011)

2010

- 60 M. J. Alvarado, J. A. Logan, J. Mao, E. Apel, D. Riemer, D. Blake, R. C. Cohen, K.-E. Min, A. E. Perring, E. C. Browne, P. J. Wooldridge, G. S. Diskin, G. W. Sachse, H. Fuelberg, W. R. Sessions, D. L. Harrigan, G. Huey, J. Liao, A. Case-Hanks, J. L. Jimenez, M. J. Cubison, S. A. Vay, A. J. Weinheimer, D. J. Knapp, D. D. Montzka, F. M. Flocke, I. B. Pollack, P. O. Wennberg, A. Kurten, J. Crouse, J. M. St. Clair, **A. Wisthaler**, T. Mikoviny, R. M. Yantosca, C. C. Carouge, and P. Le Sager, Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations, *Atmos. Chem. Phys.* 10, 9739-9760, doi:10.5194/acp-10-9739-2010 (2010)
- 59 R. Dlugi, M. Berger, M. Zelger, A. Hofzumahaus, M. Siese, F. Holland, **A. Wisthaler**, W. Grabmer, A. Hansel, R. Koppmann, G. Kramm, M. Möllmann-Coers, and A. Knaps, Turbulent exchange and segregation of HOx radicals and volatile organic compounds above a deciduous forest, *Atmos. Chem. Phys.* 10, 6215-6235, doi:10.5194/acp-10-6215-2010 (2010)
- 58 L. H. Mielke, K. A. Pratt, P. B. Shepson, S. A. McLuckey, **A. Wisthaler**, A. Hansel, Quantitative determination of biogenic volatile organic compounds in the atmosphere using proton-transfer reaction linear ion trap mass spectrometry, *Anal. Chem.* 82(19), 7952-7957, doi: 10.1021/ac1014244 (2010)
- 57 H. B. Singh, B. E. Anderson, W. H. Brune, C. Cai, , R. C. Cohen, J. H. Crawford, M. J. Cubison, P. Czech, L. Emmons, H. E. Fuelberg, G. Huey, D. J. Jacob, J. L. Jimenez, , A. Kaduwela, Y. Kondo, J. Mao, J. R. Olson, G. W. Sachse, S. A. Vay, A. Weinheimer, P. O. Wennberg, **A. Wisthaler** & the ARCTAS Science Team, Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions, *Atmos. Environ.* 44, 4553-4564, doi:10.1016/j.atmosenv.2010.08.026 (2010)
- 56 J. Lunden, G. Svensson, **A. Wisthaler**, M. Tjernström, A. Hansel, C. Leck, Vertical distribution of atmospheric DMS in the high Arctic summer, *Tellus B* 62(3), 160-171, doi: 10.1111/j.1600-0889.2010.00458.x (2010)
- 55* T. Mikoviny, L. Kaser, and **A. Wisthaler**, Development and characterization of a High-Temperature Proton-Transfer-Reaction Mass Spectrometer (HT-PTR-MS), *Atmos. Meas. Tech.* 3, 537-544 (2010)
- 54 B. Kolarik, P. Wargocki, A. Skorek-Osikowska, **A. Wisthaler**, The effect of a photocatalytic air purifier on indoor air quality quantified using different measuring methods, *Building and Environment* 45(6), 1434-1440, doi:10.1016/j.buildenv.2009.12.006 (2010)
- 53 M.S. Feldman, T. Howard, E. McDonald-Buller, G. Mullins, D. T. Allen, A. Hansel, **A. Wisthaler**, Applications of satellite remote sensing data for estimating biogenic emissions in southeastern Texas, *Atmos. Environ.* 44(7), 917-929, doi:10.1016/j.atmosenv.2009.11.048 (2010)
- 52 C. Warneke, J. A. de Gouw, L. del Negro, J. Brioude, S. McKeen, H. Stark, W. C. Kuster, P. D. Goldan, M. Trainer, F. C. Fehsenfeld, C. Wiedinmyer, A. B. Guenther, A. Hansel, **A. Wisthaler**, E. Atlas, J. S. Holloway, T. B. Ryerson, J. Peischl, L. G. Huey, and A. T. C.

Hanks, Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories, *J. Geophys. Res.* 115, D00F18, doi:10.1029/2009JD012445 (2010)

- 51* **A. Wisthaler**, C. J. Weschler, Reactions of ozone with human skin lipids: Sources of carbonyls, dicarbonyls, and hydroxycarbonyls in indoor air, *Proc. Natl. Acad. Sci. USA* 107(15), 6568-6575, doi: 10.1073/pnas.0904498106 (2010)

2009

- 50 R. Schnitzhofer, **A. Wisthaler**, and A. Hansel, Real-time profiling of organic trace gases in the planetary boundary layer by PTR-MS using a tethered balloon, *Atmos. Meas. Tech.* 2, 773-777 (2009)
- 49 M. Müller, L. H. Mielke, M. Breitenlechner, S. A. McLuckey, P. B. Shepson, **A. Wisthaler**, and A. Hansel, MS/MS studies for the selective detection of isomeric biogenic VOCs using a Townsend Discharge Triple Quadrupole Tandem MS and a PTR-Linear Ion Trap MS, *Atmos. Meas. Tech.* 2, 703-712 (2009)
- 48 R. Schnitzhofer, M. Norman, **A. Wisthaler**, J. Vergeiner, F. Harnisch, A. Gohm, F. Obleitner, A. Fix, B. Neininger, and A. Hansel, A multimethodological approach to study the spatial distribution of air pollution in an Alpine valley during wintertime, *Atmos. Chem. Phys.* 9, 3385-3396 (2009)
- 47* A. E. Perring, **A. Wisthaler**, M. Graus, P. J. Wooldridge, A. L. Lockwood, L. H. Mielke, P. B. Shepson, A. Hansel, and R. C. Cohen, A product study of the isoprene+NO₃ reaction, *Atmos. Chem. Phys.* 9, 4945-4956 (2009)
- 46 B. D'Anna, A. Jammoul, C. George, K. Stemmler, S. Fahrni, M. Amman, **A. Wisthaler**, Light-induced ozone depletion by humic acid films and submicron aerosol particles, *J. Geophys. Res. A, J. Geophys. Res.* 114, D12301, doi:10.1029/2008JD011237 (2009)
- 45 M. Norman, C. Spirig, V. Wolff, I. Trebs, C. Flechard, **A. Wisthaler**, R. Schnitzhofer, A. Hansel, and A. Neftel, Intercomparison of ammonia measurement techniques at an intensively managed grassland site (Oensingen, Switzerland), *Atmos. Chem. Phys.* 9, 2635-2645 (2009)

2008

- 44 A. Metzger, J. Dommen, K. Gaeggeler, J. Duplissy, A. S. H. Prevot, J. Kleffmann, Y. Elshorbany, **A. Wisthaler**, and U. Baltensperger, Evaluation of 1,3,5 trimethylbenzene degradation in the detailed tropospheric chemistry mechanism, MCMv3.1, using environmental chamber data, *Atmos. Chem. Phys.* 8, 6453-6468 (2008)
- 43 L. H. Mielke, D. E. Erickson, S. A. McLuckey, M. Müller, **A. Wisthaler**, A. Hansel, P. B. Shepson, Development of a Proton-Transfer Reaction-Linear Ion Trap Mass Spectrometer for Quantitative Determination of Volatile Organic Compounds, *Anal. Chem.* 80(21), 8171-8177, 10.1021/ac801328d (2008)
- 42 E. C. Apel, T. Brauers, R. Koppmann, B. Bandowe, J. Boßmeyer, C. Holzke, R. Tillmann, A. Wahner, R. Wegener, A. Brunner, M. Jocher, T. Ruuskanen, C. Spirig, D. Steigner, R. Steinbrecher, E. Gomez Alvarez, K. Müller, J. P. Burrows, G. Schade, S. J. Solomon, A. Ladstätter-Weissenmayer, P. Simmonds, D. Young, J. R. Hopkins, A. C. Lewis, G. Legreid, S. Reimann, A. Hansel, **A. Wisthaler**, R. S. Blake, A. M. Ellis, P. S. Monks, and K. P. Wyche, Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber, *J. Geophys. Res.* 113, D20307, doi: 10.1029/2008JD009865 (2008)
- 41 L. Fang, G. Zhang, **A. Wisthaler**, Desiccant wheels as gas-phase absorption (GPA) air cleaners: evaluation by PTR-MS and sensory assessment, *Indoor Air* 18(5), 375-385, DOI: 10.1111/j.1600-0668.2008.00538.x (2008)
- 40 M. Bunge, N. Araghipour, T. Mikoviny, J. Dunkl, R. Schnitzhofer, A. Hansel, F. Schinner, **A. Wisthaler**, R. Margesin, and T. D. Märk, On-Line Monitoring of Microbial Volatile

- Metabolites by Proton Transfer Reaction-Mass Spectrometry, *Appl. Environ. Microbiol.* 74(7), 2179–2186, doi:10.1128/AEM.02069-07 (2008)
- 39 Y. Sun, L. Fang, D. P. Wyon, **A. Wisthaler**, L. Lagercrantz, P. Strøm-Tejsen, Experimental research on photocatalytic oxidation air purification technology applied to aircraft cabins, *Building and Environment* 43, 258–268, doi:10.1016/j.buildenv.2006.06.036 (2008)
- 38 J. Song, W. Vizuete, S. Chang, D. Allen, Y. Kimura, S. Kemball-Cook, G. Yarwood, M.-A. Kioumourtzoglou, E. Atlas, A. Hansel, **A. Wisthaler**, and E. McDonald-Buller, Comparisons of modeled and observed isoprene concentrations in southeast Texas, *Atmos. Environ.* 42(8), 1922-1940, doi:10.1016/j.atmosenv.2007.11.016 (2008)
- 37 N. Araghipour, J. Colineau, A. Koot, W. Akkermans, J. M. Moreno Rojas, J. Beauchamp, **A. Wisthaler**, T. D. Märk, G. Downey, C. Guillou, L. Mannina, S. M. van Ruth, Geographical origin classification of olive oil by PTR-MS, *Food Chemistry*, *Food Chemistry* 108(1) 374-383, doi: 10.1016/j.foodchem.2007.10.056 (2008)
- 36 R. Schnitzhofer, J. Beauchamp, J. Dunkl, **A. Wisthaler**, A. Weber, A. Hansel, Long-Term Measurements of CO, NO, NO₂, Benzene, Toluene and PM₁₀ at a Motorway Location in an Austrian Valley, *Atmos. Environ.* 42(5), 1012-1024, doi:10.1016/j.atmosenv.2007.10.004 (2008)
- 35* **A. Wisthaler**, E. C. Apel, J. Bossmeyer, A. Hansel, W. Junkermann, R. Koppmann, R. Meier, K. Müller, S. J. Solomon, R. Steinbrecher, R. Tillmann, and T. Brauers, Intercomparison of formaldehyde measurements at the atmosphere simulation chamber SAPHIR, *Atmos. Chem. Phys.* 8, 2189-2200 (2008)
- 34 S. M. Van Ruth, A. Koot, W. Akkermans, N. Araghipour, M. Rozijn, M. Baltussen, **A. Wisthaler**, T. Märk, R. Frankhuizen, Butter and butter oil classification by PTR-MS, *Eur. Food Res. Technol.* 227(1), 307-317, doi: 10.1007/s00217-007-0724-7 (2008)

2007

- 33 C. J. Weschler, **A. Wisthaler**, S. Cowlin, G. Tamás, P. Strøm-Tejsen, A. T. Hodgson, H. Destailhats, J. Herrington, J. Zhang, W. W. Nazaroff, Ozone-Initiated Chemistry in an Occupied Simulated Aircraft Cabin, *Environ. Sci. Technol.* 41, 6177-6184, doi:10.1021/es0708520 (2007)
- 32 R. Spitaler, N. Araghipour, T. Mikoviny, **A. Wisthaler**, J. Dalla Via, T. D. Märk, PTR-MS in enology: Advances in analytics and data analysis, *Int. J. Mass Spectrom.* 266(1-3), 1-7 (2007)
- 31* M. Norman, A. Hansel, **A. Wisthaler**, O₂⁺ as reagent ion in the PTR-MS instrument: detection of gas-phase ammonia, *Int. J. Mass Spectrom.* 265(2-3), 382-387 (2007)
- 30 R. Wegener, T. Brauers, R. Koppmann, S. Rodríguez Bares, F. Rohrer, R. Tillmann, A. Wahner, A. Hansel, and **A. Wisthaler**, Simulation chamber investigation of the reactions of ozone with short-chained alkenes, *J. Geophys. Res.* 112(D13), D13301, doi:10.1029/2006JD007531 (2007)
- 29 K. Plankensteiner, H. Reiner, B. M. Rode, T. Mikoviny, **A. Wisthaler**, A. Hansel, T. D. Märk, G. Fischer, H. Lammer and H. O. Rucker, Discharge experiments simulating chemical evolution on the surface of Titan, *Icarus* 187(2), 616-619 (2007)
- 28* **A. Wisthaler**, P. Strøm-Tejsen, L. Fang, T. J. Arnaud, A. Hansel, T. D. Märk, D. P. Wyon, PTR-MS assessment of photocatalytic and sorption-based purification of recirculated cabin air during simulated 7-hour flights with high passenger density, *Environ. Sci. Technol.* 41(1), 229-234 (2007)

2006

- 27 M. Graus, A. Hansel, **A. Wisthaler**, C. Lindinger, R. Forkel, K. Hauff, M. Klauer, A. Pfichner, B. Rappenglück, D. Steigner, R. Steinbrecher, A relaxed-eddy-accumulation method

- for the measurement of isoprenoid canopy-fluxes using an online gas-chromatographic technique and PTR-MS simultaneously, *Atmos. Environ.* 40 (Suppl. 1), 43-54 (2006)
- 26 K. Müller, S. Haferkorn, W. Grabmer, **A. Wisthaler**, A. Hansel, J. Kreuzwieser, C. Cojocariu, H. Rennenberg, H. Herrmann, Biogenic carbonyl compounds within and above a coniferous forest in Germany, *Atmos. Environ.* 40 (Suppl. 1), 81-91 (2006)
- 25 W. Grabmer, C. Cojocariu, M. Graus, J. Kreuzwieser, H. Rennenberg D. Steigner, R. Steinbrecher, **A. Wisthaler** and A. Hansel, VOC emissions from Norway spruce (*Picea abies* L. [Karst]) twigs in the field—Results of a dynamic enclosure study, *Atmos. Environ.* 40 (Suppl. 1), 128-137 (2006)

2005

- 24 J. Beauchamp, **A. Wisthaler**, A. Hansel, E. Kleist, M. Miebach, Ü. Niinemets, U. Schurr and J. Wildt, Ozone induced emissions of biogenic VOC from tobacco: Relationships between ozone uptake and emission of LO_x products, *Plant, Cell and Environment* 28, 1334-1343 (2005)
- 23* B. D'Anna, **A. Wisthaler**, O. Andreasen, A. Hansel, J. Hjorth, N. R. Jensen, C. J. Nielsen, Y. Stenstrom, J. Viidanoja, Atmospheric Chemistry of C₃-C₆ Cycloalkanecarbaldehydes, *J. Phys. Chem. A* 109(23), 5104-5118 (2005)
- 22* **A. Wisthaler**, G. Tamas, D. P. Wyon, P. Strom-Tejsen, D. Space, J. Beauchamp, A. Hansel, T. D. Märk and C. J. Weschler, Products of Ozone-Initiated Chemistry in a Simulated Aircraft Environment, *Environ. Sci. Technol.* 39(13), 4823-4832 (2005)
- 21 C. Spirig, A. Neftel, C. Ammann, J. Dommen, W. Grabmer, A. Thielmann, A. Schaub, J. Beauchamp, **A. Wisthaler**, A. Hansel; Eddy covariance Flux measurements of biogenic VOCs during ECHO 2003 using proton transfer reaction mass spectrometry, *Atm. Chem. Phys.* 5, 465-481 (2005)
- 20 D. J. Jacob, B. D. Field, Q. Li, D. R. Blake, J. de Gouw, C. Warneke, A. Hansel, **A. Wisthaler**, and H. B. Singh, Global Budget of Atmospheric Methanol: Constraints from atmospheric observations, *J. Geophys. Res.* 110, D08303, doi:10.1029/2004JD005172 (2005)

2004

- 19 W. Grabmer, M. Graus, C. Lindinger, **A. Wisthaler**, B. Rappenglück, R. Steinbrecher, A. Hansel; Disjunct Eddy Covariance Measurements of Monoterpene Fluxes From a Norway Spruce Forest using PTR-MS, *Int. J. Mass Spectrom.* 239, 111-115 (2004)
- 18 E. von Hartungen, **A. Wisthaler**, T. Mikoviny, D. Jaksch, E. Boscaini, P.J. Dunphy and T.D. Märk, Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids, Determination of Henry's law constants and axillary odour investigations, *Int. J. Mass Spectrom.* 239, 243-248 (2004)
- 17 E. Boscaini, T. Mikoviny, **A. Wisthaler**, E. Hartungen and T. D. Märk, Characterization of wine with PTR-MS, *Int. J. Mass Spectrom.* 239, 215-219 (2004)
- 16 M. Graus, J.-P. Schnitzler, A. Hansel, **A. Wisthaler**, H. Rennenberg and J. Kreuzwieser; Transient emission of acetaldehyde and other oxygenated VOC by poplar under changing environmental conditions, *Plant Phys.* 135, 1967-1975 (2004)
- 15 J.-P. Schnitzler, M. Graus, J. Kreuzwieser, U. Heizmann, H. Rennenberg, **A. Wisthaler**, and A. Hansel, Contribution of different carbon sources to isoprene biosynthesis in poplar leaves, *Plant Phys.* 135, 152-160 (2004)
- 14 J. Beauchamp, **A. Wisthaler**, W. Grabmer, C. Neuner, A. Weber and A. Hansel, Short-term measurements of CO, NO, NO₂, organic compounds and PM₁₀ at a motorway location in an Austrian valley, *Atmos. Environ.* 38(16), 2511-2522 (2004)

2003

- 13 A. K. Hawes, S. Solomon, R. W. Portmann, J. S. Daniel, A. O. Langford, H. L. Miller, Ch. S. Eubank, P. Goldan, Ch. Wiedinmyer, E. Atlas, A. Hansel, and **A. Wisthaler**, Airborne Observations of Vegetation and Implications for Biogenic Emission Characterization, *J. Env. Monit.* 6, 977-983 (2003)
- 12 B. P. Wert, M. Trainer, A. Fried, T. B. Ryerson, B. Henry, W. Potter, W. M. Angevine, E. Atlas, S. G. Donnelly, F. C. Fehsenfeld, G. J. Frost, P. D. Goldan, A. Hansel, J. S. Holloway, G. Hübler, W. C. Kuster, D. K. Nicks Jr., J. A. Neuman, D. D. Parrish, S. Schauffler, J. Stutz, D. T. Sueper, C. Wiedinmyer, and **A. Wisthaler**, Signatures of Alkene Oxidation in Airborne Formaldehyde Measurements During TexAQS 2000, *J. Geophys. Res.* 108(D3), 4104, doi: 10.1029/2002JD002502 (2003)
- 11 S. A. Guazzotti, D. T. Suess, K. R. Coffee, P. K. Quinn, T. S. Bates, **A. Wisthaler**, A. Hansel, W. Ball, R. R. Dickerson, C. Neusüß, P. J. Crutzen, and K. A. Prather, Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion, *J. Geophys. Res.* 108(D15), 4485, doi: 10.1029/2002JD003277 (2003)
- 10 W. Singer, A. Hansel, **A. Wisthaler**, W. Lindinger, E. E. Ferguson, Vibrational Quenching of $\text{NO}^+(\text{v})$ Ions by Ar Collisions, *Int. J. Mass Spectrom.* 223-224, 757-762 (2003)

2002

- 9 J. Kreuzwieser, M. Graus, **A. Wisthaler**, A. Hansel, H. Rennenberg, J.-P. Schnitzler, Xylem-transported glucose as an additional carbon source for leaf isoprene formation in *Quercus robur* L., *New Phytologist* 156, 171-178 (2002)
- 8 C. A. Stroud, J. M. Roberts, E. J. Williams, D. Heried, D. D. Parish, W. Angevine, and F. C. Fehsenfeld, **A. Wisthaler** and A. Hansel, M. Martinez-Harder, H. Harder and W. H. Brune, B. Alicke and J. Stutz, A. B. White, Nighttime Isoprene trends at an urban forested site during the 1999 Southern Oxidant Study, *J. Geophys. Res.* 107(D16), ACH 7-1, doi: 10.1029/2001JD000959 (2002)
- 7* **A. Wisthaler**, A. Hansel, R. R. Dickerson, and P. J. Crutzen, Organic trace gas measurements by PTR-MS during INDOEX 1999, *J. Geophys. Res.* 107(D19), 8024, doi:10.1029/2001JD000576 (2002)

2001

- 6* **A. Wisthaler**, N. R. Jensen, R. Winterhalter, W. Lindinger and J. Hjorth, Measurements of Acetone and Other Gas Phase Product Yields from the OH-initiated Oxidation of Terpenes by Proton-Transfer-Reaction Mass Spectrometry (PTR-MS), *Atmos. Environ.* 35, 6181-6191 (2001)
- 5 D. Sprung, C. Jost, T. Reiner, A. Hansel, and **A. Wisthaler**, Airborne measurements of acetone and acetonitrile in the tropical Indian Ocean boundary layer and free troposphere: Aircraft-based intercomparison of AP-CIMS and PTR-MS measurements, *J. Geophys. Res.* 106, 22, 28511-28528 (2001)

2000

- 4 A. Hansel and **A. Wisthaler**, A Method for Real-Time Detection of PAN, PPN and MPAN in Ambient Air, *Geophys. Res. Lett.* 27, 895-898 (2000)
- 3* **A. Wisthaler**, A. Hansel, M. Schwarzmann, Ch. Scheiring, and W. Lindinger, E. E. Ferguson, Relaxation of vibrationally excited HCN^+ and DCN^+ ions in collisions with He, *J. Chem. Phys.* 112, 731-735 (2000)

1999

- 2 A. Hansel, A. Jordan, C. Warneke, R. Holzinger, **A. Wisthaler** and W. Lindinger, Proton-Transfer-Reaction Mass Spectrometry (PTR-MS): On-line monitoring of volatile organic compounds at volume mixing ratios of a few pptv, *Plasma Sources Sci. Technol.* 8, 332-336 (1999)

1998

- 1 A. Hansel, W. Singer, **A. Wisthaler**, M. Schwarzmann and W. Lindinger, Energy dependencies of the proton transfer reactions $\text{H}_3\text{O}^+ + \text{CH}_2\text{O} \leftrightarrow \text{CH}_2\text{OH}^+ + \text{H}_2\text{O}$, *Int. J. Mass Spectrom. Ion Proc.* 167/168, 697-703 (1998)

BOOK CHAPTERS / OFFICIAL REPORTS

- 11 S. Langebner, T. Mikoviny, M. Müller, A. Wisthaler, VOC measurements by PTR-ToF-MS at the Birkenes Observatory. A summary report, NILU REPORT OR 01/2014, ISBN: 978-82-425-2637-3 (printed), 978-82-425-2638-0 (electronic) (2014)
- 10 M. Karl, C. Dye, A. Wisthaler, N. Schmidbauer, T. Mikoviny, M. Lanza, B. D'Anna, A. Meme, M. Vázquez-Moreno, A. Muñoz, M. R. Garcíá, E. Bórras, Photo-oxidation of two amines for use in CO₂ capture: Experimental studies in the European Photo Reactor EUPHORE, NILU REPORT OR 44/2013, ISBN: 978-82-425-2615-1 (printed), 978-82-425-2616-8 (electronic) (2013)
- 9 C. J. Nielsen, B. D'Anna, R. Bossi, A. J. C. Bunkan, L. Dithmer, M. Glasius, M. Hallquist, A. M. K. Hansen, A. Lutz, K. Salo, M. M. Maguta, Q. Nguyen, T. Mikoviny, M. Müller, H. Skov, E. Sarrasin, Y. Stenstrøm, Y. Tang, J. Westerlund, **A. Wisthaler**, Atmospheric Degradation of Amines (ADA). Summary report from atmospheric chemistry studies of amines, nitrosamines, nitramines and amides, ISBN 978-82-992954-7-5, University of Oslo, Oslo, Norway (2012)
- 8 C. J. Nielsen, B. D'Anna, M. Karl, M. Aursnes, A. Boreave, R. Bossi, A. J. C. Bunkan, M. Glasius, M. Hallquist, A. M. K. Hansen, K. Kristensen, T. Mikoviny, M. M. Maguta, M. Müller, Q. Nguyen, J. Westerlund, K. Salo, H. Skov, Y. Stenstrøm, **A. Wisthaler**, Atmospheric Degradation of Amines (ADA). Summary report: Photo-oxidation of methylamine, dimethylamine and trimethylamine, NILU REPORT OR 2/2011, ISBN: 978-82-425-2357-0 (printed), 978-82-425-2358-7 (electronic) (2011)
- 7 C. J. Nielsen, B. D'Anna, C. Dye, C. George, M. Graus, A. Hansel, M. Karl, S. King, M. Musabila, M. Müller, N. Schmidbauer, Y. Stenstrøm, **A. Wisthaler**, Atmospheric Degradation of Amines (ADA). Summary report: Gas phase photo-oxidation of 2-aminoethanol (MEA), NILU REPORT OR 8/2010, ISBN: 978-82-425-2173-6 (printed), 978-82-425-2172-9 (electronic) (2010)
- 6 A. Hansel, **A. Wisthaler**, J. W. Stehr, R. R. Dickerson, S. A. Guazzotti, K. Coffee, and K. A. Prather, Characterization of Pollution Outflow from India and Arabia: Biomass Burning and Fossil Fuel Combustion, ed. by S. A. Penkett, K. S. Law, U. Platt and A. Volz-Thomas, International Scientific Secretariat (ISS), GSF, Munich, Germany (2003)
- 5 C. Leck, P. Matrai, E. Swietlicki, M. Tjernström, S. Abbott, M. L. Jensen, K. Bigg, C. Fischer, A. Gharibi, B. Gustavsson, M. Norman, S. Söderberg, A. Targino, A. Öhrström, A. Hansel, **A. Wisthaler**, J. Ikävalko, J. Knulst, J. Militzer, K. Olli, J. Paatero, T. Roine, D. E. Rosenberg, B. Thomson, P. Wassmann, The Atmospheric Programme – sources of airborne particles over the remote Arctic Ocean and their climatic relevance, Polarforskningssekretariatet Årsbok 2001, Polarforskningssekretariatet, Stockholm, Sweden (2002)
- 4 J. Williams, Ch. Jost, E. Simon and **A. Wisthaler**, Variability-lifetime relationship: Theoretical considerations and application in field measurement interpretation, in *Chemical, Physical and Biogenic Processes in the Atmosphere*, ed. by G. Moortgat, pp. 229-241, distributed by Max-Planck-Institut für Chemie, Mainz (2002)
- 3 A. Hansel, **A. Wisthaler**, Ch. Jost and A. Wollny, PTR-MS Measurements in two extreme environments: Nashville and the Indian Ocean, in *Chemical, Physical and Biogenic Processes*

- in the Atmosphere*, ed. by G. Moortgat, pp. 221-228, distributed by Max-Planck-Institut für Chemie, Mainz (2002)
- 2 J. Hjorth, N. R. Jensen, W. Lindinger, R. Winterhalter, **A. Wisthaler**, Laboratory studies of the atmospheric degradation of monoterpenes, in *Atmospheric Diagnostics in Urban Regions*, ed. by J. P. Lay, K. H. Becker, W. Hauthal, B. Rindone and C. Zetsch, pp. 141-146, Initiativen zum Umweltschutz, Band 33, Erich Schmid Verlag, Berlin (2001)
- 1 N. R. Jensen, B. Larsen, R. Winterhalter, **A. Wisthaler** and J. Hjorth, Atmospheric Degradation Pathways for Biogenic and Aromatic VOC, CMD Annual Report 2000, pp. 49-53, GSF, München (2000)

INVITED TALKS AT INTERNATIONAL CONFERENCES / SYMPOSIA / WORKSHOPS

- 20 **A. Wisthaler**, Application of Ion-Molecule-Reactions to Atmospheric Composition Research, XIXth Symposium on Atomic, Cluster and Surface Physics 2014, Universitätszentrum Obergurgl, Obergurgl, Austria, February 7-19 (talk on February 11) (2014)
- 19 **A. Wisthaler**, An overview of on-line CIMS methods for the measurement of organic trace gases in the Earth's atmosphere, Soft Ionisation Mass Spectrometric Techniques and the Environmental Sciences – Meeting by the Molecular Physics Group of the Institute of Physics and the Environmental Chemistry Group of the Royal Society of Chemistry, University of Birmingham, United Kingdom, November 20 (2013)
- 18 **A. Wisthaler**, The state-of-the-art in on-line CIMS measurements of organic trace gases in the Earth's atmosphere, European Science Foundation (ESF) Strategic Workshop on the Molecular Identification of Organic Compounds in the Atmosphere, University of Cambridge, Cambridge, United Kingdom, March 24 – 28 (talk on March 25) (2013)
- 17 **A. Wisthaler**, J. H. Crawford, S. Haidacher, G. Hanel, E. Hartungen, A. Jordan, L. Märk, T. Mikoviny, M. Müller, P. Mutschlechner, R. Schottkowsky, P. Sulzer, Development of a compact PTR-ToF-MS for Suborbital Research on the Earth's Atmospheric Composition, 6th International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications, Obergurgl, Austria, February 3 – February 8 (2013)
- 16 **A. Wisthaler**, VOCs in Indoor Air, Annual Meeting - 2012, Norwegian Society of Indoor Air Quality and Climate, Oslo, Norway, April 17 (2012)
- 15 **A. Wisthaler**, T. Mikoviny and C. J. Weschler, The reaction of ozone at the air-human body interface, 5th International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications Obergurgl, Austria, January 26 – February 2 (2011)
- 14 **A. Wisthaler**, Atmospheric Degradation of Amines, CLIMIT Dagene 2010, Oslo, Norway, October 12 – 13 (2010)
- 13 **A. Wisthaler**, New Insights into the Gas-Phase Chemistry of the Indoor Atmosphere, Telluride Science Research Center Workshop: New Insights into Gas-Phase Atmospheric Chemistry, Telluride, USA, August 12 – 16 (2010)
- 12 **A. Wisthaler**, and C. J. Weschler, Chemistry of ozone and human skin lipids and its implications for indoor ozone and carbonyls, Symposium on 'Fate and Transport of Pollutants in the Built Environment: Atmospheric Chemistry Moves Indoors', 239th ACS National Meeting & Exposition, San Francisco, USA, March 21-25 (2010)
- 11 **A. Wisthaler**, Reactions of ozone with human skin lipids: Sources of carbonyls, dicarbonyls, and hydroxycarbonyls in indoor air, 8th Workshop in the Series "Urban Air Quality and Traffic", Ecole Normale Supérieure, Paris, October 6 – 7 (2009)
- 10 **A. Wisthaler**, PTR-MS in smog chamber research - a review, 4th International Conference on PTR-MS and its Applications, Obergurgl, Austria, February 16 – 21 (2009)
- 9 **A. Wisthaler**, Online monitoring of VOCs by proton-transfer-reaction mass spectrometry (PTR-MS), AIRMON 2008 - Sixth International Symposium on Modern Principles of Air Monitoring and Biomonitoring, Geilo, Norway, January 28-31 (2008)
- 8 **A. Wisthaler**, Ozone revisited, 2nd Annual Aviation Health Conference, London, United Kingdom, November 1-2 (2007)
- 7 **A. Wisthaler**, A. Hansel and T. D. Märk, Recent Developments in Proton-Transfer-Reaction Mass Spectrometry, 15th Symposium on Atomic and Surface Physics and Related Topics, Obergurgl, Austria, February 4-9 (2006)
- 6 **A. Wisthaler**, A. Hansel, A. Jordan and T. D. Märk, Recent Developments in PTR-MS, XXIV International Conference on Photonic, Electronic and Atomic Collisions, Rosario, Argentina, July 20-26 (2005)

- 5 **A. Wisthaler**, C. J. Weschler, D. P. Wyon, P. Wargocki, A. Hansel, and T. D. Märk, PTR-MS measurements in indoor environments, 2nd International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications, Obergurgl, Austria, January 29-February 3 (2005)
- 4 **A. Wisthaler** and A. Hansel, PTR-MS; a new tool for the rapid detection and quantification of VOCs in air at ultra-trace levels, Breath Gas Analysis For Medical Diagnostics, Dornbirn, Austria, September 23-26 (2004)
- 3 **A. Wisthaler**, A. Hansel, J. Kleffmann, T. Brauers, F. Rohrer, and A. Wahner, Nitrous Acid (HONO) Measurements by PTR-MS, 1st International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications, Igl/Innsbruck, Austria, January 18-23 (2003)
- 2 **A. Wisthaler**, In-situ measurements of environmental trace gases by PTR-MS, Symposium on Application of Plasma Processes XIV, Liptovsky Mikulas, Slovak Republic, January 13-18 (2003)
- 1 **A. Wisthaler**, Proton-Transfer-Reaction Mass-Spectrometry (PTR-MS): on-line monitoring of volatile organic compounds at mixing ratios of a few pptv, Escampig 98, Malahide, Ireland, August 26-29 (1998)