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#### **Conference Contributions with Simple Review:**

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2. The Zugspitze Lidar: On the Way to Ground-Based Water-Vapour Measurements throughout the Free Troposphere, T. Trickl, H. Vogelmann, pp. 81 to 84 in: Lidar Remote Sensing in Atmospheric and Earth Sciences, Reviewed and Revised Papers presented at the 21th Interna-

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3. EARLINET: Establishing the European Aerosol Lidar Network, J. Bösenberg, M. Alpers, A. Ansmann, J. M. Baldasano, D. Balis, C. Böckmann, B. Calpini, A. Chaikovsky, A. Hågård, V. Mitev, A. Papayannis, J. Pelon, D. Resendes, N. Spinelli, T. Trickl, G. Vaughan, G. Visconti, M. Wiegner, pp. 293 to 296 in: Lidar Remote Sensing in Atmospheric and Earth Sciences, Reviewed and Revised Papers presented at the 21th International Laser Radar Conference, Québec, Canada, July 8 to 12, 2002, L. R. Bissonette, G. Roy, G. Vallée, Eds., Defence R&D Canada-Valcartier (Val-Bélair, QC G3J 1X5, Canada, 2002)
  4. Two years of continuous observations of Saharan dust events over the European continent using a coordinated LIDAR network in the frame of the EARLINET project, A. Papayannis, D. Balis, A. Chaikovsky, A. Comeron, R. Eixmann, A. Hagard, M. Iarlori, L. Komguyen, I. Mattis, V. Mitev, M. Pandolfi, J. Rodrigues, L. Sauvage, P. Sobolewski, N. Spinelli, F. De Tomasi, T. Trickl, G. Tsaknakis, M. Wiegner, pp. 309 to 312 in: Lidar Remote Sensing in Atmospheric and Earth Sciences, Reviewed and Revised Papers presented at the 21th International Laser Radar Conference, Québec, Canada, July 8 to 12, 2002, L. R. Bissonette, G. Roy, G. Vallée, Eds., Defence R&D Canada-Valcartier (Val-Bélair, QC G3J 1X5, Canada, 2002)
  5. Lidar Characterization of Volcanic Dust Performed by the European Aerosol Research Lidar Network (EARLINET project) During Etna's Eruption, X. Wang, A. Amodeo, A. Chaikovsky, W. Kumpf, A. Papayannis, M. R. Perrone, V. Rizi, L. Sauvage, N. Spinelli, T. Trickl, pp. 313 to 315 in: Lidar Remote Sensing in Atmospheric and Earth Sciences, Reviewed and Revised Papers presented at the 21th International Laser Radar Conference, Québec, Canada, July 8 to 12, 2002, L. R. Bissonette, G. Roy, G. Vallée, Eds., Defence R&D Canada-Valcartier (Val-Bélair, QC G3J 1X5, Canada, 2002)
  6. A Powerful Widely Tunable Single-mode Laser System for Lidar Sounding of Water Vapour throughout the Free Troposphere, T. Trickl, H. Vogelmann, pp. 175 to 178 in: Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference, Matera, Italy, July 12 to 16, 2004, G. Pappalardo, A. Amodeo, B. Warmbein, Eds., ESA Publications Division (Noordwijk, The Netherlands, 2004), ISBN 92-9092-872-7, ISSN 0379-6566
  7. Long-range Transport and its Impact on the Vertical Distribution of Trace Constituents in the Central European Free Troposphere, H. Jäger, S. Kreipl, P. James, A. Stohl, T. Trickl, pp. 679 to 682 in: Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference, Matera, Italy, July 12 to 16, 2004, G. Pappalardo, A. Amodeo, B. Warmbein, Eds., ESA Publications Division (Noordwijk, The Netherlands, 2004), ISBN 92-9092-872-7, ISSN 0379-6566
  8. Saharan Dust Outbreaks towards Europe: 3 Years of Systematic Observations by the European Lidar Network in the Frame of the EARLINET Project (2000-2003), A. Papayannis, M. Alpers, D. Balis, J. Bösenberg, A. Chaikovsky, F. de Tomasi, A. Haagaard, V. Matthias, I. Mattis, V. Mitev, S. Nicovic, G. Pappalardo, J. Pelon, C. Perez, G. Pisani, S. Puchalski, D. Stoyanov, V. Rizi, L. Sauvage, V. Simeonov, T. Trickl, G. Vaughan, M. Wiegner, A. D. Castahno, pp. 845 to 848 in: Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference, Matera, Italy, July 12 to 16, 2004, G. Pappalardo, A. Amodeo, B. Warmbein, Eds., ESA Publications Division (Noordwijk, The Netherlands, 2004), ISBN 92-9092-872-7, ISSN 0379-6566
  9. European Aerosol Research Lidar Network – Advanced Sustainable Observation System (EARLINET-ASOS), G. Pappalardo, J. Bösenberg, A. Amodeo, A. Ansmann, A. Apituley, D. Balis, C.

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10. Wide-range Vertical Sounding of Free-tropospheric Water Vapour: The First Two Years of Operation of the Zugspitze Differential-absorption Lidar, T. Trickl, H. Vogelmann, pp. 687 to 690 in: Reviewed and Revised Papers Presented at the 23rd International Laser Radar Conference, Nara (Japan), July 24 to 28, 2006, C. Nagasawa, N. Sugimoto, Eds., Tokyo Metropolitan University (Tokyo, Japan, 2006), ISBN 4-9902916-0-3
  11. Long-Range Transport of Free-Tropospheric Aerosol: A Nine-year Climatology, H. Jäger, P. James, A. Stohl, T. Trickl, pp. 795 to 796 in: Reviewed and Revised Papers Presented at the 23rd International Laser Radar Conference, Nara (Japan), July 24 to 28, 2006, C. Nagasawa, N. Sugimoto, Eds., Tokyo Metropolitan University (Tokyo, Japan, 2006), ISBN 4-9902916-0-3
  12. Twelve Years of Lidar Studies of Stratosphere-Troposphere Transport, T. Trickl, H.-E. Scheel, M. Sprenger, A. Stohl, H. Vogelmann, pp. 647-650 in: Reviewed and Revised Papers Presented at the 24<sup>th</sup> International Laser Radar Conference, Boulder (Colorado, U.S.A.), June 23-27, 2008, Vol. II, M. Hardesty, S. Mayor, Eds., ISBN 978-0-615-21489-4
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  14. One Year of Routine Operation with the Water Vapor DIAL on Mt. Zugspitze, H. Vogelmann, T. Trickl, 24<sup>th</sup> ILRC pp. 1064-1067 in: Reviewed and Revised Papers Presented at the 24<sup>th</sup> International Laser Radar Conference, Boulder (Colorado, U.S.A.), June 23-27, 2008, Vol. II, M. Hardesty, S. Mayor, Eds., ISBN 978-0-615-21489-4
  15. Standardization of the Definitions of Vertical Resolution and Uncertainty in the NDACC-Archived Ozone and Temperature Measurements, T. Leblanc, S. Godin-Beekmann, G. Payen, F. Gabarrot, A. van Gijssel, J. Bandoro, R. Sica, T. Trickl, pp. 327-330 in: Reviewed and Revised Papers Presented at the 26th International Laser Radar Conference (ILRC 2012), Porto Heli (Greece), June 25 to 29, 2012, A. Papayannis, D. Balis, V. Amiridis, Eds., published in Greece on behalf of the International Co-ordination Group for Laser Atmospheric Studies (ICLAS), 2012
  16. Two Decades of Tropospheric Studies with Differential-Absorption Lidar Systems at Garmisch-Partenkirchen, T. Trickl, Invited Paper, pp. 823-826 in: Reviewed and Revised Papers Presented at the 26th International Laser Radar Conference (ILRC 2012), Porto Heli (Greece), June 25 to 29, 2012, A. Papayannis, D. Balis, V. Amiridis, Eds., published in Greece on behalf of the International Co-ordination Group for Laser Atmospheric Studies (ICLAS), 2012
  17. On the Way to Combined DIAL and Raman-Lidar Sounding of Water Vapour on Mt. Zugspitze – a Progress Report, L. Klanner, T. Trickl, H. Vogelmann, pp. 853-826 in: Reviewed



and Revised Papers Presented at the 26th International Laser Radar Conference (ILRC 2012), Porto Heli (Greece), June 25 to 29, 2012, A. Papayannis, D. Balis, V. Amiridis, Eds., published in Greece on behalf of the International Co-ordination Group for Laser Atmospheric Studies (ICLAS), 2012

18. Simultaneous Measurements of Free-Tropospheric Water Vapor and Ozone, H. Vogelmann, T. Trickl, pp. 999-1002 in: Reviewed and Revised Papers Presented at the 26th International Laser Radar Conference (ILRC 2012), Porto Heli (Greece), June 25 to 29, 2012, A. Papayannis, D. Balis, V. Amiridis, Eds., published in Greece on behalf of the International Co-ordination Group for Laser Atmospheric Studies (ICLAS), 2012

### Further Relevant Publications

1. IF(A  $\rightarrow$  X, B  $\rightarrow$  X) Chemiluminescence of Fluorine-iodide Systems in a Crossed Molecular Beam Experiment, M. Trautmann, T. Trickl, J. Wanner, pp. 525-529 in: "Selectivity in Chemical Reactions", NATO Advanced Science Institute Series, Series C (Mathematical and Physical Sciences), Vol. 245, Proceedings of the NATO Advanced Workshop in Bowes-on-Windermere (Great Britain), Sep. 7 to 11, 1987, J. C. Whitehead, Ed., Kluwer Academic Publishers (Dordrecht, The Netherlands, 1988)
17. Lidar Measurements of Atmospheric Extinction During the MAPTIP Trial, G. J. Kunz, T. Trickl, in: "Image Propagation Through the Atmosphere", SPIE Symposium, Denver (Colorado, U.S.A.), August 7 to 9, 1996, J. C. Dainty, L. R. Bissonnette, Eds., Proc. SPIE **2828** (1996), 31-38, SPIE – The International Society for Optical Engineering (Bellingham, Washington, U.S.A.)
39. Warm conveyor belts and their importance for intercontinental air-pollution transport, A. Stohl, T. Trickl, pp. 31-32 in: Atmospheric Ozone, Proceedings of the Quadrennial Ozone Symposium 2000, Sapporo (Japan), July 3 to 8, 2000, NASDA (Tokyo, Japan, 2000)
46. Experimental Evidence for Trans-Atlantic Transport of Air Pollution, A. Stohl, T. Trickl, IGACtivities, Newsletter of the International Global Atmospheric Chemistry Project, Issue No. 24 (2001) 10-12
62. Atmospheric Long-range Transport and its Impact on the Trace-gas Concentrations in the Free Troposphere over Central Europe (ATMOFAST), A. Ebel, S. Eckhardt, H. Feldmann, C. Forster, H. Jäger, H. Jakobs, P. James, H.-J. Kanter, M. Kerschgens, S. Kreipl, M. Memmesheimer, H. E. Scheel, A. Stohl, T. Trickl, H. Vogelmann, Atmosphärenforschung 2000, Newsletter 9, 7-10, GSF-Forschungszentrum (München, Germany, December 2004),
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