

Peer Reviewed Publications

- Baran, A.J., J.S. Foot and D.L. Mitchell, 1998: Ice-crystal absorption: a comparison between theory and implications for remote sensing. *Appl. Opt.*, **37**, 2207-2215.
- Black, R.A., and J. Hallett, 1998: The mystery of cloud electrification, *Am. Scientist*, **86**, 526-534.
- Borys, R. D., D. H. Lowenthal, M.A. Wetzel, F. Herrera, A. Gonzalez, Chemical and microphysical properties of marine stratiform cloud in the North Atlantic. *J. Geophys. Res.* **103**, 22073 - 22085.
- Bottenheim, J.W., A. Guenther, P.B. Shepson, R. Steinbrecher and W.R. Stockwell, 1998: Section; Biogenic Hydrocarbons in the Atmospheric Boundary Layer, Preface. *J. Geophys. Res.*, **103**, 25463-25465.
- Brook, J.R., T.F. Dann, A. Wiebe, S.M. Li, S. Sharma, Z. Nejedly, J.C. Chow, and Y.Z. Tang, 1998: Intercomparison of Sampling and Analysis Techniques for PM_{2.5} Monitoring. *J. Aerosol. Sci.*, **29**, (S1): S145.
- Chow, J.C., J.G. Watson, D.H. Lowenthal, R.T. Egami, P.A. Solomon, R.H. Thuillier, K.L. Magliano, and A. Ranzieri, 1998: Spatial and Temporal Variations of Particulate Precursor Gases and Photochemical Reaction Products during SJVAQS/AUSPEX Ozone Episodes. *Atmos.*, **32(16)**, 2835-2844.
- Dettinger, M.D., and K.T. Redmond, 1998: Workshop assesses the 1997-1998 El Niño from Pacific Climate perspectives. PACLIM 1998 Summary. EOS, *J. Geophys. Res.*, **79(36)**, 430-431.
- Doran, J.C., S. Abbott, J. Archuleta, X. Bian, J.C. Chow, R.L. Coulter, S.F.J. de Wekker, S. Edgerton, S. Elliott, A. Fernandez, J.D. Fast, J.M. Hubbe, C. King, D. Langley, J. Leach, J.T. Lee, T.J. Martin, D. Martinez, J.L. Martinez, G. Mercado, V. Mora, M. Mulhearn, J.L. Pena, R. Petty, W. Porch, C. Russell, R. Salas, J.D. Shannon, W.J. Shaw, G. Sosa, L. Tellier, B. Templeman, J.G. Watson, R. White, C.D. Whiteman, and D. Wolfe, 1998: The IMADA-AVER Boundary Layer Experiment in the Mexico City Area. *Bulletin, Amer. Meteor. Soc.*, **79 (11)**, 2497-2508.
- Finnegan, W.G., 1998: Rates and mechanisms of heterogeneous ice nucleation on silver iodide and silver chloroiodide particulate substrates. *J. Coll. Interface Sci.*, **202**, 518-526.
- Hindman, E. E., and R. D. Borys, 1998: Long-term cloud droplet measurements for climate-change studies. *World Resource Rev.*, **10**, 569-576.
- Hudson, J.G., and Y. Xie, 1998: Cloud condensation nuclei measurements in the high troposphere and in jet aircraft exhaust. *Geophys. Res. Lett.*, **25**, 1395-1398.
- Hudson, J.G., Y. Xie, and S.S. Yum, 1998: Vertical distributions of cloud condensation nuclei spectra over the summertime Southern Ocean. *J. Geophys. Res.*, **103**, 16,609-16,624.

- Jensen, E. J., O. B. Toon, A. Tabazadeh, G. W. Sachse, B. E. Anderson, K.R. Chan, C.W. Twohy, B. Gandrud, S. M. Aulenbach, A. Heymsfield, J. Hallett, and B. Gary, 1998: Ice nucleation processes in upper tropospheric wave-clouds observed during SUCCESS. *Geophys. Res. Lett.*, **25**, 1363-1366.
- Klemm, O., W.R. Stockwell, H. Schlager and H. Ziereis, 1998: Nitrogen Oxides from Aircraft in the Northeast Atlantic Flight Corridor. *J. Geophys. Res.*, **103**, 31217-31229, 1998.
- Kuhn M., P.J.H. Builtjes, D. Poppe, D. Simpson, W.R. Stockwell, Y. Andersson-Sköld, A. Baart, M. Das, F. Fiedler, Ø. Hov, F. Kirchner, , P.A. Makar, J.B. Milford, M.G.M. Roemer, R. Ruhnke, A. Strand, B. Vogel and H. Vogel, 1998: Intercomparison of the Gas-Phase Chemistry in Several Chemistry and Transport Models, *Atmos. Environ.*, **32**, 693-709.
- Lightfoot, J. A., W. P. Arnott, H. E. Bass, and R. Raspet, 1998: Experimental study of a radial mode thermoacoustic prime mover. *J. Acoust. Soc. Am.*, **105**, 2652-2662.
- Liu Y., W. P. Arnott, and J. Hallett, 1998: Anomalous diffraction theory for arbitrarily oriented finite circular cylinders and comparison with exact T-matrix results. *Appl. Opt.*, **37**, 5019-5030.
- Lowenthal, D.H., J.C. Chow, and D.M. Mazzer, 1998: PM10 Source Apportionment at McMurdo Station, Antarctica. *Antarctic Journal*, **32**, 165-167.
- Moosmüller, H., 1998: Brewster's Angle Porro Prism: A Different Use for a Pellin-Broca Prism. *Engineering & Laboratory Notes*, a supplement to *Opt. Photon. News* 9, 5, 3pp. *Appl. Opt.*, **37**, 8140-8141.
- Moosmüller, H., J. A. Gillies, C. F. Rogers, D. W. DuBois, J. C. Chow, J. G. Watson, and R. Langston, 1998: Particulate Emission Rates for Unpaved Shoulders along a Paved Road. *J. Air & Waste Manage. Assoc.* **48**, 398-407.
- Moosmüller, H., W.P. Arnott, C.F. Rogers, J.C. Chow, C.A. Frazier, L.E. Sherman, and D.L. Dietrich, 1998: and filter measurements related to aerosol light absorption during the Northern Front Range Air Quality Study (Colorado 1996/1997). *J. Geophys. Res.*, **103**, 28,149-28,157.
- Radok, U., and T.J. Brown, 1998: In search of polar warming. *Meteorol. and Atmos. Phys.*, **67**, 249-252.
- Rogers, C.F., J.G. Watson, D. Day, and R.G. Oraltay, 1998: Real-Time Liquid Water Mass Measurement for Airborne Particulates. *Aerosol Sci. Technol.*, **29(6)**, 557-562.
- Sassen, K., and W. P. Arnott, 1998: Light and color in the open air -- introductory remarks by the feature editors. *App. Opt.*, **37**, 1425-1426.
- Sassen, K., W.P. Arnott, J.M. Barnett, and S. Aulenbach, 1998: cirrus clouds produce glories?, *Appl. Opt.* **37**, 1427-1433.
- Sassen, K., G.G. Mace, J. Hallett, and M. R. Poellot, 1998: Corona-producing ice clouds: a case study of a cold mid-latitude cirrus layer. *Appl. Opt.*, **37**, 1477-1485.
- Szumowski, M.J., R.M. Rauber, H.T. Ochs, and K.V. Beard, 1998: The microphysical structure and evolution of Hawaiian rainband clouds. Part II: Aircraft measurements within rainbands containing high reflectivity cores. *J. Atmos. Sci.*, **55**, 208-226.

- Szumowski, M.J., W.W. Grabowski, and H.T. Ochs, 1998: A simple two-dimensional kinematic framework designed to test warm rain microphysical models. *Atmos. Res.*, **45**, 299-326.
- Villenave, E., R. Lesclaux, S. Seefeld and W.R. Stockwell, 1998: Kinetics and Atmospheric Implications of Peroxy Radical Cross Reactions Involving CH₃C(O)O₂ Radical, *J. Geophys. Res.*, **103**, 25273-25285.
- Vance, J. D., C. Y. She, and H. Moosmüller, 1998: Continuous-Wave, All-Solid-State, Single-Frequency 400-mW Source at 589 nm Based on Doubly Resonant Sum-Frequency Mixing in a Monolithic Lithium-Niobate Resonator. *Appl. Opt.*, **37**, 4891-4896.
- Wetzel, M.A., D. Dempsey, S. Nilsson, M. Ramamurthy, S. Koch, J. Moody, D. Knight, C. Murphy, D. Fulker, M. Marlino, M. Morgan, D. Yarger, D. Vietor, and G. Cox, 1998: Faculty workshop on using instructional technologies and satellite data for college-level education in the atmospheric and earth sciences. *Bulletin, Amer. Meteor. Soc.*, **79**, 2153-2160.
- Yum, S.S., J.G. Hudson, and Y. Xie, 1998: Comparisons of cloud microphysics with cloud condensation nuclei spectra over the summertime Southern. *Ocean. J. Geophys. Res.*, **103**, 16,625-16,636.
- Zielinska, B., E. Fujita, J. Sagebiel, G. Harshfield, E. Uberna, T. Hayes, and F. Keene, 1998: Arizona Hazardous Air Pollutants Monitoring Program. *J. Air Waste Manage. Assoc.*, **48**, 1038-1050.