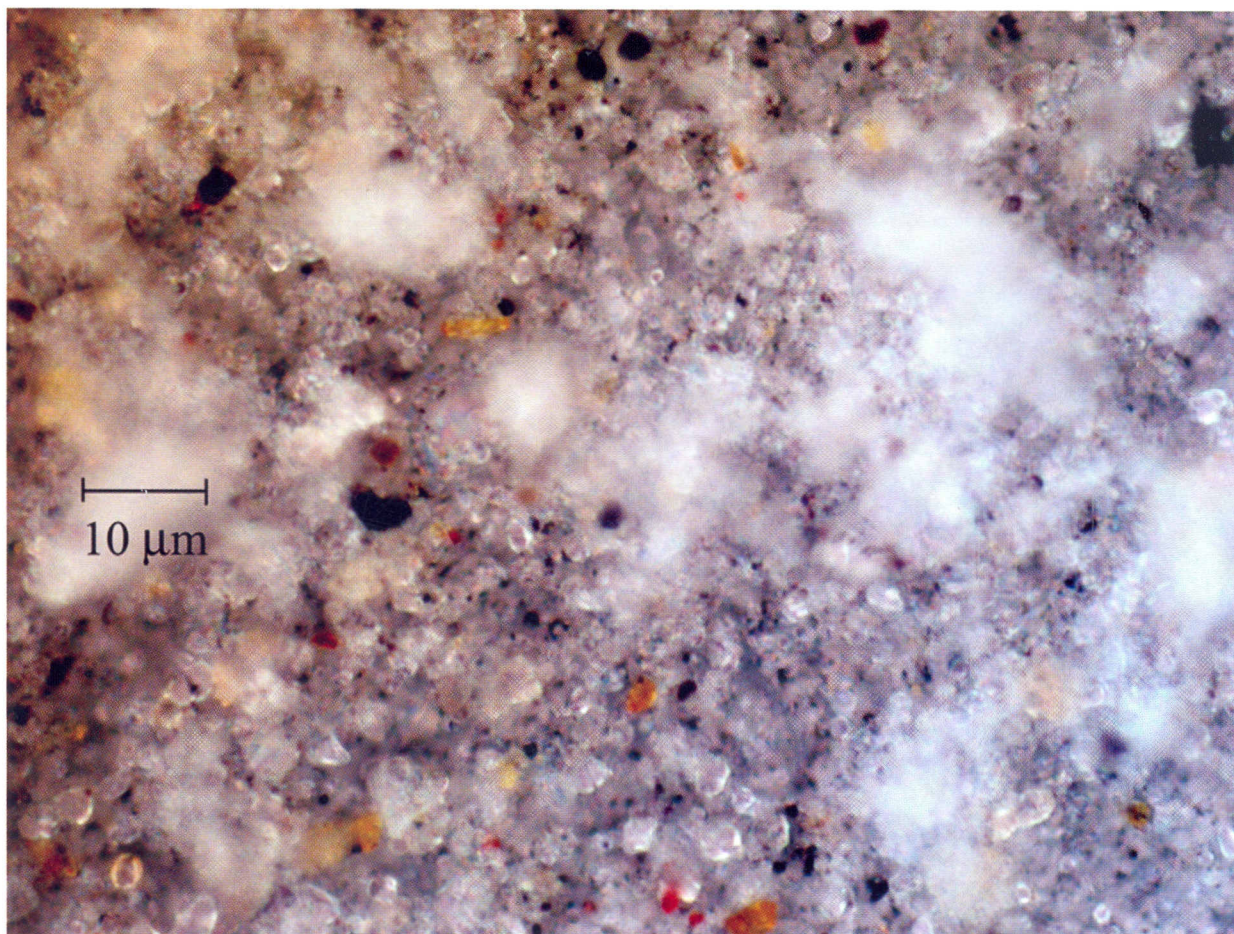


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Optical microscope image of black soot conglomerates and red-brown dust particles in Arctic snow on Devon Island, Nunavut, May 2009. Spectral transmission analysis gives the absorption of sunlight by the soot and dust components separately. For details see the paper by Grenfell *et al.*, pp. 2037–2048.

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Fiber Optics and Optical Communications

Characterization and optimization of Yb-doped photonic-crystal fiber rod amplifiers using spatially resolved spectral interferometry

Jake Bromage, John M. Fini, Christophe Dorrer, and Jonathan D. Zuegel

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Design and optimization of broadband and polarization-insensitive dual-core photonic crystal fiber coupler

Shuqin Lou, Zunwei Tang, and Liwen Wang

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William Kordonski and Sergei Gorodkin

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Chalcogenide glass microlenses by inkjet printing

Eric A. Sanchez, Maike Waldmann, and Craig B. Arnold

1974

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Surface-plasmon-resonance-based fiber-optic refractive index sensor: sensitivity enhancement

Priya Bhatia and Banshi D. Gupta

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Fiber Optics and Optical Communications

All-optical analog-to-digital conversion scheme based on Sagnac loop and balanced receivers

Kun Xu, Jian Niu, Yitang Dai, Xiaoqiang Sun, Jian Dai, Jian Wu, and Jintong Lin

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Color image hiding based on the phase retrieval technique and Arnold transform

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Band-edge oscillations of the diffraction spectrum of a volume hologram investigated by the air-doping model

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2008

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Atmospheric CO_2 measurements with a 2 μm airborne laser absorption spectrometer employing coherent detection

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Visible and infrared extinction of atmospheric aerosol in the marine and coastal environment

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Fiber Optics and Optical Communications

1.4 ps pedestal-free low timing jitter 10 GHz pulse source using commercial cascaded LiNbO_3 modulators and fiber-based compressor

Jianhua Chen, Caiyun Lou, Li Huo,
and Dan Lu

1979

Instrumentation, Measurement, and Metrology

Light absorption from particulate impurities in snow and ice determined by spectrophotometric analysis of filters

Thomas C. Grenfell,
Sarah J. Doherty, Antony D. Clarke,
and Stephen G. Warren

2037

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Nonlinear Optics

Generation of high-energy vacuum UV
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four-wave mixing in a transparent solid

João L. Silva, Helder M. Crespo, and
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1968

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Field demonstration of a scanning lidar and
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Erik S. Carlsten, Geoffrey R. Wicks,
Kevin S. Repasky, John L. Carlsten,
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