

From satellites to ice cores: investigating the impact of impurities in the cryosphere

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The scientific literature regarding the impact of impurities in snow started from seminal papers of Warren and Wiscombe in early '80s. Nowadays this relatively new science is flourishing as new models and observations are available at different scales both for alpine ranges and continental ice sheets. In this talk, I will present the activities of the University of Milano-Bicocca in the context of impurities (mineral dust, black carbon, organic material) in the cryosphere integrating multi-scale remote sensing with geochemistry and microbiology.