

**NUMERICAL MODELLING OF DISPERSION OF ATMOSPHERIC POLLUTION IN
AND ABOVE URBAN CANOPIES**

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ABSTRACT

The effect of the photochemical cycle on the NO₂ concentration within a typical square (B/H=1) street canyon is studied. For this purpose the microscale model MIMO is applied based on wind tunnel experimental data in order to validate it and to identify the wind velocity field established for such a geometrical configuration. The chemical module is subsequently applied and first results for night-time chemistry indicate clearly an important increase in the NO₂ concentrations along the street canyon.