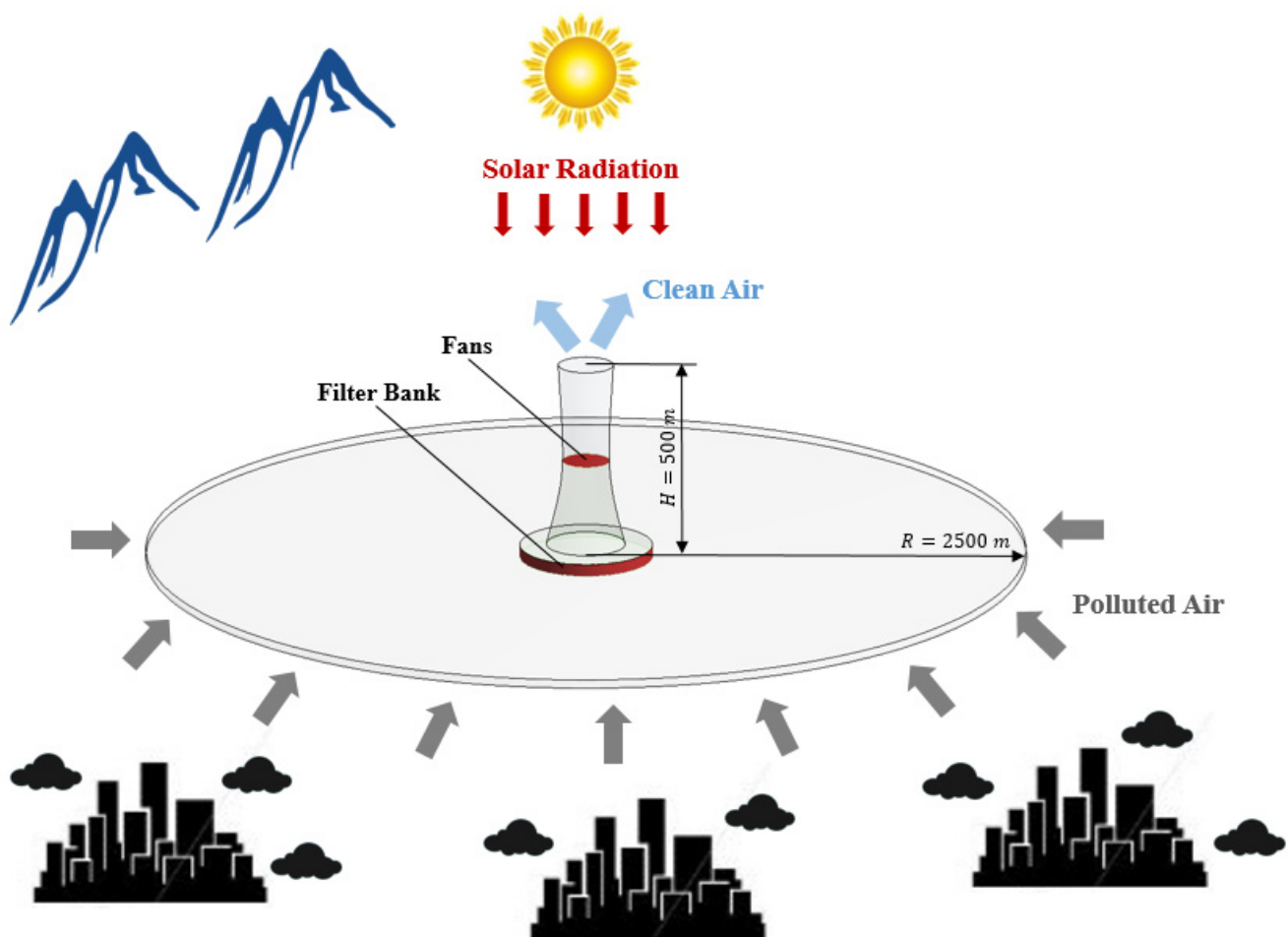


Aerosol and Air Quality Research

Cover Story



A solar-assisted large-scale cleaning system (SALSCS) is proposed for urban air remediation. The system consists of a solar collector, a chimney, and a filter bank. The air flow is driven by buoyancy towards the chimney. A filter bank is used to collect the $\text{PM}_{2.5}$ and larger PM. The system can be complemented by introduction of fans to generate electricity or drive the flow in the absence of solar radiation. Numerical simulations demonstrated that SALSCS is promising for air pollution abatement.

(Cao, Q.F., Pui, D.Y.H. and Lipiński, W. (2015). A Concept of a Novel Solar-Assisted Large-Scale Cleaning System (SALSCS) for Urban Air Remediation. *Aerosol Air Qual. Res.* 15: 1–10)

AEROSOL AND AIR QUALITY RESEARCH

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