

Accepted Manuscript

Study on Optimizing Design of Solar Chimney for Natural Ventilation and Smoke Exhaustion

Xudong Cheng , Long Shi , Peng Dai , Guomin Zhang ,
Hui Yang , Jie Li

PII: S0378-7788(17)34054-9
DOI: [10.1016/j.enbuild.2018.04.016](https://doi.org/10.1016/j.enbuild.2018.04.016)
Reference: ENB 8489



To appear in: *Energy & Buildings*

Received date: 13 December 2017
Revised date: 7 April 2018
Accepted date: 10 April 2018

Please cite this article as: Xudong Cheng , Long Shi , Peng Dai , Guomin Zhang , Hui Yang , Jie Li , Study on Optimizing Design of Solar Chimney for Natural Ventilation and Smoke Exhaustion, *Energy & Buildings* (2018), doi: [10.1016/j.enbuild.2018.04.016](https://doi.org/10.1016/j.enbuild.2018.04.016)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Solar chimney under natural ventilation and smoke exhaustion were studied;
- Reduced-scale experimental platform was built including both chimney cavity and room;
- Solar chimney potential for natural ventilation and smoke exhaustion was confirmed;
- Optimized designs were obtained for solar chimney under both functions by experiments;
- Empirical model was developed for both natural ventilation and smoke exhaustion.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6727857>

Download Persian Version:

<https://daneshyari.com/article/6727857>

[Daneshyari.com](https://daneshyari.com)